PERANCANGAN JEMBATAN DENGAN PRATEGANG

DI JALAN TRANS JAWA – BALI

(Km 92 Tukad Keladian, Kabupaten Jembrana, Provinsi Bali)

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KATA HANTAR

Puji Syukur kepada Tuhan yang Maha Esa, atas rahmat dan karunia-Nya sehingga penulis dapat menyelesaikan laporan Tugas Akhir dengan judul **"PERANCANGAN JEMBATAN DENGAN PRATEGANG DI JALAN TRANS JAWA – BALI (Km 92 Tukad Keladian, Kabupaten Jembrana, Provinsi Bali)"** sebagai syarat menyelesaikan pendidikan Program Strata I Fakultas Teknik, Program Studi Teknik Sipil, Universitas Atma Jaya Yogyakarta.

Perancangan jembatan dengan mengunakan beton prategang yang mengacu pada SNI baja prategang , dan PBI-1971 mengenai perancangan jalan dan jembatan yang di keluarkan oleh Bina Marga. Perancangan di lakukan untuk mengetahui dimensi penampang, kekuatan tekan beton, kuat baja prategang, dan beban struktur atas jembatan mulai dari trotoar, tiang railling, serta beton *precast* dengan syarat sesuai dengan SNI dan PBI dari Bina Marga.

Kesimpulan yang diperoleh berupa hasil perhitungan terhadap beban balok T, baban mati, beban pedestrian jalan, beban trotoar, diafragma,beban raling dan baja prategang, menyatakan kesesuaian syarat-syarat keamanan pada jembatan prategang di Tukad Keladian untuk menggantikan jembatan *convensional* yang telah rusak.

Yogyakarta, Oktober 2017

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DAFTAR ARTI KATA DAN SINGKATAN

A = Lebar atas balok T (mm)

Ast = Luas tampang nominal satu strands (mm^2)

B = Lebar bawah balok T (mm)

B_e = Lebar efektif plat lantai (m)

d = Diameter lingkaran (mm)

d' = Jarak tulangan terhadap sisi luar beton (mm)

E_c = Modulus elastik beton (Mpa)

E_p = Modulus elastisitas (Mpa)

E_s = Modulus elastis *strands* (Mpa)

e_s = Eksentrisitas tendon

F = Gaya pratekan (KN)

$f\,'c$ = Kuat tekan beton (Mpa)

F_p = Tegangan Tarik (Mpa)

Fy = Tegangan leleh perencanaan (Mpa)

Fu = Tegangan putus perencanaan (Mpa)

Fpy = Tegangan leleh strand (Mpa)

Fpu = Kuat tarik strand (Mpa)

G = Modulus Geser (Mpa)

H = Tinggi balok T (mm)

H_1 = Berat tiang railing (KNm)

h = Tinggi lintasan kabel pratekan (m)

h_a = Tebal lapisan aspal + overlay (m)

I = Inersia Momen (kg/m^2)

L = Panjang bentang balok prategang (m)

M = Momen yang diakibatkan oleh beban (N/mm)

P = Beban terpusat (KN)

P_{bs} = Beban putus minimal satu strands (KN)

P_t = Gaya prategang (KN)

Q = Beban merata (KNm)

s = Jarak antara balok prategang (m)

S_t = Modulus penampang (m^3)

t = Tebal (mm)

T_{web} = Lebar badan balok T (mm)

t_{fl} = Tinggi *flange* (mm)

t_h = Tinggi genangan air hujan (m)

Vu = Gaya geser ultimit rencana (KN)

Vw = Kecepatan angin rencana (m/det)

w = Tahanan momen (mm^3)

W_{air} = Berat jenis air hujan (KN/m^3)

W_{aspal} = Berat jenis aspal (KN/m^3)

W_b = Beban merata akibat gaya pratekan (KNm)

w_c = Berat jenis beton prategang (KN/m^3)

$w_{c'}$ = Berat jenis beton bertulang (KN/m^3)

$w_{c''}$ = Berat jenis beton (KN/m^3)

y_a = Tinggi dari garis netral ke pelat atas (mm)

y_b = Titik berat tendonke bawah tendon (mm)

y_d = Jarak vertikal antara as ke as tendon

z_0 = Jarak titik berat tendon terhadap alas balok (mm)

σ = Tegangan pada gelar jembatan (mm^2)

α = Koefisien mulai panjang untuk beton (/ºC)

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INTISARI

PERANCANGAN JEMBATAN DENGAN PRATEGANG DI JALAN TRANS JAWA – BALI (Km 92 Tukad Keladian, Kabupaten Jembrana, Provinsi Bali), Wiliam Christopher Sairo, NPM 13 02 14898, tahun 2017, Bidang Peminatan Transportasi, Program Studi Teknik Sipil, Fakultas Teknik, Universitas Atma Jaya Yogyakarta.

Provinsi Bali menjadi salah satu daerah di indonesian yang mejadi destinasi wisata dunia. Hal ini menyebabkan pertumbuhan penduduk meningkat begitu pesat yang mengakibatkan juga pada pertumbuhan volume kendaraan yang semakin banyak di Provinsi Bali terkusus di Jaan Tukad Keladian yg merupakan jalur penghubung antara pelabuhan Gilimanuk ke Kota Bali, oleh karena itu penyediaan prasarana jalan dan jembatan harus ditingkatkan, seperti halnya Jembatan Tukad Keladian di kabupaten Jembrana Bali, yang awalnya di bangun dengan struktur jembatan konvensional sehingga terjadi kerusakan pada awal Tahun 2016, di rancang ulang dengan strukur jembatan prategang yang cepat dan mudah serta memiliki nilai struktur dengan umur yang lama.

Perancangan ini untuk mengetahui nilai struktur atas rancangan jembatan Tukad Keladian,untuk mengetahui kekuatan tahan beban lalu lintas yang mengacu pada SNI Beton *Prestresing* dan PBI – 1971 Beton prategang. Perhitungan di lakukan secara manual mengenai trotoar jalan, beton prategang, tiang railling, diafragma dan kekuatan tendon yang dihitung menggunakan *SAP2000 v14*, dan hasil *output* dalam bentuk detail gambar lengkap jembatan.

PCI *Girder* yang di gunakan sebanyak 40 buah yang terbagi dalam tiap bentang dimana tiap bentang berisi 5 segmen lebar efektif jalan 12,6 m, maka digunakan 8 bentang beton *precast* yang di beli dari PT. WIKA Surabaya, dari hasil perhitungan luas balok T sebesar 716,8 cm^3 , lebar efektif plat lantai diambil 1,613 m, *Section* Properti Balok Prategang : momen statis total 1,186 m^3, momen inersia total 1,64 m^4 , berat diafragma 97,2 KN, berat balok prategang 713,44 KN, gaya geser akibat berat sendiri 231,154 KN, beban mati tambahan 4,57 KN, beban merata (*Q*) lajur 14,4 KN/m dan beban terpusat (*P*) pada lajur 110,88 KN, gaya rem diambil 50 KN, beban angin langsung ke plat lantai 1,01 KN/m, Beban gempa 4,161 KN/m dengan waktu getar 0,43/det, Momen maksimum akibat berat balok 2675,39 KNm, pembesian balok prategang total 38 D 13, yang dibagi atas tengah dan bawah. Untuk perhitungan trotoar di hitung berat sendiri trotoar 14,79 KN masuk pada beban dead dimana beban tersebut sudah dibagi dua untuk masing-masing trotoar, beban terpusat pada pedestrian 20 KN, beban merata pada pedestrian 5 kPa, momen *ultimet* rencana 52,57 KNm, pembesian slab trotoar jumlah tulangan 12 D 16, dimana jarak antara tulangan 192 cm lebar trotoar 1,05 m. Beban pada tiang railing 1 Kn/m, pembesian tiang railing : rasio tulangan di

perlukan 0,0104 maka digunakan tulangan 2 D 13, tulangan sengkang 2 P 6 – 150. Baja *prestresing* kuat tekan awal 8677,6 KN, kondis akhir saat *transfer* 7146,23 KN,eksentrisitas modulus penampang atas 2972,656 cm^3, eksentrisitas modulus penampang bawah 2972,656 cm^3 , momen statis tendon terhadap pusat tendon terbawah 114 KNm, diameter selubung tendon 0,076 m.

Kata Kunci : beton *prestresing* , baja *prestresing*, trotoar jalan, diafrgma, tiang railing.

BAB I

PENDAHULUAN

1.1 Latar Belakang

Kabupaten Jembrana, Provinsi Bali memiliki jembatan Tukad Keladian di km 92 yang difungsikan sebagai akses sarana jalan trans yang menghubungkan Jawa dan Bali. Jembatan ini sudah di bangun dari tahun 1970 dan runtuh pada Januari 2016 karena tergerus air sungai pada plat tengah. Jembatan Tukad Keladian merupakan jalur yang paling sering dilewati karena terbilang cukup cepat untuk sampai Kota Bali dari pelabuhan Gilimanuk, sehingga pada awal Februari 2016 dibangun ulang jembatan trans Jawa – Bali. Jembatan Tukad Keladian yang baru dibangun dengan metode *prestresing* (prategang) dan tidak menggunakan metode *convensional*.

1.2. Identifikasi Masalah

Jembatan Tukad Keladian yang terletak di Kabupaten Jembrana, Provinsi Bali ini sudah berumur cukup lama sejak dibangun pada tahun 1970 dengan tipe jembatan *convensional* dan roboh pada januari 2016 akibat tergerus air sungai dibawah jembatan, oleh karena itu Jembatan Tukad Keladian di Kabupaten Jembrana perlu dibangun kembali, untuk memenuhi kebutuhan wisatawan dan masyarakat dalam menjalankan aktivitasnya dan diharapkan mampu menahan beban lalulintas yang berat dan tingkat kepadatan lalu lintas yang tinggi.

1.3. Rumusan Masalah

Provinsi Bali memang sangat terkenal dengan potensi wisatanya yang tak pernah habisnya. Untuk menjamin keamanan dan kenyamanan wisatawan, pemerintah mulai meningkatkan dan menata kembali sarana jalan yang baik agar akses ke tempat wisata tidak tersendat seperti halnya jembatan Tukad Keladian yang merupakan projek peningkatan pembangunan dari pemerintah. Jembatan Tukad Keladian yang baru di bangun dengan metode *prestresing* dengan bentang 30 m dan lebar 7,5 m dan mengunakan material beton pra-cetak dan kabel baja dimana struktur dengan jembatan prategang, alasan digunakannya metode prategang pada struktur jembatan karena pengerjan dengn menggunakan beton prategang lebih cepat dan biaya lebih murah. Perbedaan strukural terletak pada lendutan saat pembebanan jembatan dimana saat penegangan jembatan *prestresing* lendutan ke arah atas karena penegangan dan lendut kebawah setelah pembebanan, sedangkan pada jembatan *covensional* lendutan terjadi kearah bawah, saat pembebanan lendutan terjadi kearah bawah juga diakibatkan besarnya gaya tarik. Jembatan yang menghubungkan lalu lintas antara daerah ini, pembangunannya harus dikerjakan dengan cepat, agar tidak menghambat arus pendistribusian barang dari Jawa ke Bali.

1.4. Batasan Masalah

Dalam Tugas Akhir ini, agar penulisan tidak meluas dan menyimpang dari tujuan utama, maka permasalahan dibatasi pada.

1. Perencanaan jembatan yang ditinjau dengan perhitungan pembebanan berdasarkan Pedoman Perencanaan Jalan Raya (SKBI, 1987), dan SNI Beton *Prestresing*.
2. Lokasi jembatan terletak dijembatan trans Jawa - Bali km 92 Tukad keladian, Kabupaten Jembrana Provinsi Bali.
3. Membahas material yang digunakan dalam perancangan jembatan meliputi kuat beton serta kuat tarik kawat baja.
4. Jembatan direncanakan pada zona gempa wilayah 4.
5. Perencanaan baja jembatan mengacu pada Rancangan Standar Nasional Indonesia T-12-2004 tentang Perencannan Sruktur Beton untuk Jembatan.
6. Analisis struktur jembatan dilakukan dengan bantuan program *SAP2000 v.14*
7. Struktur bawah diabaikan.
8. Perancangan dilakukan pada bagian struktur atas jembatan meliputi: sandaran jembatan, trotoar, lantai jembatan, gelagar jembatan, rangka pemikul utama dan perhitungan sambungan.

1.5. Keaslian Tugas Akhir

Menurut referensi tentang Tugas Akhir yang ada di Universitas Atma Jaya Yogyakarta, Perancangan Jembatan di jalan Tukad Keladian, Jembrana, Bali, belum pernah dilakukan dengan menggunakan metode *prestresing*.

1.6. Tujuan Tugas Akhir

Penulisan Tugas Akhir ini bertujuan untuk merancang ulang elemen-elemen struktur Jembatan Tukad Keladian, Jembrana Bali, yang mana semula adalah jembatan *convensional* dari beton yang tergerus plat tengah dan telah berumur tua, kemudian dirancang ulang menjadi jembatan girder dangan balok prategang. Serta analisis terhadap struktur menggunakan program bantu *SAP 2000 v14* sehingga diperoleh hasil yang aman terhadap beban-beban yang terjadi dan sesuai fungsi.

1.7. Manfaat Tugas Akhir

Penulis berharap Perancangan Jembatan Tukad keladian, Jembrana Bali dapat membantu perorangan atau instansi pemerintah setempat sebagai salah satu alternative dalam pembangunan jembatan yang dapat melayani arus kendaraan yang ada saat ini demi majunya teknologi dibidang jalan dan jembatan kota.

BAB II

TINJAUAN PUSTAKA

2.1 Pengertian Umum Beton Prategang

Pengertian beton prategang menurut beberapa peraturan adalah sebagai berikut.

1. Menurut PBI – 1971 Beton prategang adalah beton bertulang dimana telah ditimbulkan tegangan-tegangan *intern* dengan nilai dan pembagian yang sedemikian, hingga tegangan-tegangan akibat beton dapat dinetralkan sampai suatu standar yang diinginkan.
2. Menurut Draft Konsensus Pedoman Beton 1998 beton prategang adalah beton bertulang yang dimana telah diberikan tegangan dalam untuk mengurangi tegangan tarik potensial dalam beton akibat pemberian beban yang bekerja.
3. Menurut ACI, Beton prategang adalah beton yang mengalami tegangan internal dengan besar dan distribusi sedemikian rupa sehingga dapat mengimbangi sampai batas tertentu tegangan yang terjadi akibat beban *eksternal*.

2.2 Beton Prategang

Beton adalah suatu bahan yang mempunyai kekuatan tekan yang tinggi, tetapi kekuatan tariknya relatif rendah. Sedangkan baja adalah suatu material yang mempunyai kekuatan tarik yang sangat tinggi. Dengan mengkombinasikan beton

dan baja sebagai bahan struktur maka tegangan telah dipikulkan kepada beton sementara tegangan tarik dipikulkan kepada baja.

Pada struktur dengan bentang yang panjang, struktur bertulang biasa tidak cukup untuk menahan tegangan lentur sehingga terjadi retak-retak di bagian daerah yang mempunyai tegangan lentur, geser atau puntir yang tinggi. Untuk mengatasi keretakan serta berbagai keterbatasan yang lain maka dilakukan penegangan pada struktur beton bertulang. Sistem penegangan ini mulai digunakan pada tahun 1886 saat *PH. Jakson* dari Amerika Serikat membuat kontruksi pelat atap.

Di Jerman pada tahun 1888, *CEW Doehring* mendapatkan hak paten untuk penegangan plat beton dengan kawat baja. Pada 1928 *Eugene Freyssinet*, seorang insinyur Perancis, berhasil memberikan pratekan terhadap struktur beton sehingga dimungkinkan untuk membuat desain dengan penampang yang lebih kecil untuk bentang yang relatif panjang.

Kesulitan kemudian timbul dalam perhitungan struktur statis tak tentu, karena pemberian pratekan menimbulkan gaya tambahan yang sulit diperhitungkan. Pada 1951 *Yves Guyon* berhasil memberikan solusinya. Perkembangan beton pratekan berlanjut dengan dikemukakannya *Load Balancing Theory* oleh *Tung Yen Lin* pada 1963. Teori tersebut telah mendorong perkembangan penggunaan beton pratekan yang pesat. *PW. Abeles* dari Inggris kemudian memperkenalkan penggunaan *Partial Prestressing* yang menginjinkan tegangan tarik terbatas pada beton.

Keuntungan penggunaan beton prategang adalah :

1. Dapat memikul beban lentur yang lebih besar dari beton bertulang.
2. Dapat dipakai pada bentang yang lebih panjang dengan mengatur defleksinya.
3. Kelebihan geser dan puntirnya bertambah dengan adanya penegangan.
4. Dapat dipakai pada rekayasa kontruksi tertentu, misalnya pada kontruksi jembatan segmen.
5. Berbagai kelebihan lain pada penggunaan struktur khusus, seperti struktur plat dan cangkang, struktur tangki, struktur pracetak dan lain-lain.
6. Pada penampang yang diberi penegangan, tegangan tarik dapat dieleminasi karena besarnya gaya tekan disesuaikan dengan beban yang akan diterima.

Kekurangan struktur beton prategang relatif lebih sedikit dibanding berbagai kelebihannya, antara lain:

a. memerlukan peralatan khusus seperti tendon, angkur, mesin penarik kabel, dll.

b. memerlukan keahlian khusus baik dalam perencanaan maupun pelaksanaannya.

2.2.1. Tahap Pembebanan

Tidak seperti beton bertulang, beton prategang mengalami beberapa tahap pembebanan. Pada setiap tahap pembebanan harus dilakukan pengecekan atas kondisi beban dari setiap penampang. Pada tahap tersebut berlaku tegangan ijin yang berbeda-beda sesuai kondisi beton atau tendon. Tahap pembebanan pada beton pratekan, yaitu *Transfer* dan *Service.*

1. *Transfer*

Tahap transfer adalah tahap pada saat beton sudah mulai mengering dan dilakukan penarikan kabel prategang. Pada saat ini biasanya yang bekerja hanya beban mati struktur, yaitu berat sendiri struktur ditambah beban pekerja dan alat. Pada saat ini beban hidup belum bekerja sehingga momen yang bekerja adalah minimum, sementara gaya yang bekerja adalah maksimum karena belum ada kehilangan gaya prategang.

2. *Servis*

Kondisi *Service* (servis) adalah kondisi pada saat beton pratekan digunakan sebagai bagian struktur jembatan. Kondisi ini dapat diketahui setelah semua kehilangan gaya prategang dipertimbangkan. Dapat diketahui ketika beban luar pada kondisi yang maksimum, dan gaya pratekan mendekati minimum. Pada proses di atas kita dapat menentukan hasil analisis untuk dievaluasi. Hasil analisis bisa berupa perhitungan tegangan atau kontrol terhadap gaya tekan, misalnya lendutan terhadap lendutan ijin, nilai retak terhadap suatu nilai batas, dan lain sebagainya. Perhitungan tegangan dilakukan untuk desain terhadap kekuatan, sedangkan kontrol terhadap gaya dilakukan untuk desain kekuatan, beban layan, ketahanan terhadap api, cuaca ataupun tahap batas yang lain. Perhitungan untuk tegangan bisa dilakukan dengan pendekatan kombinasi beban, konsep kopel internal (*Internal Couple Concept*) atau metode beban penyeimbang (*Load Balancing Method*).

2.2.2. Prosedur Perencanaan

Metode yang digunakan dalam perencanaan struktur beton terdiri dari 2 metode, yaitu metode beban kerja (*working stress method*) dan metode beban batas (*limit states method*). Metode beban kerja dilakukan dengan meghitung tegangan yang terjadi dan membandingkan dengan tegangan ijin yang ditetapkan. Jika, tegangan yang terjadi lebih kecil dari tegangan yang diijinkan maka dinyatakan aman. Untuk menghitung beban pada setiap elemen struktur jembatan, semua beban tidak dikalikan dengan faktor beban. Tegangan ijin dikalikan dengan suatu faktor kelebihan tegangan (*overstress factor*). Untuk struktur beton, metode ini diterapkan pada Peraturan Beton Indonesia (PBI 1971).

Analisa dari beban memiliki batas-batas tertentu yang bisa dilampaui oleh suatu rancangan struktur, terutama adalah kekuatan, kemampuan layan, keawetan beton, ketahanan terhadap api, ketahanan terhadap cuaca, ketahanan terhadap beban kelelahan dan persyaratan khusus yang berhubungan dengan struktur tersebut. Setiap batas dinyatakan aman, apabila kekuatan rencana lebih kecil dari kapasitas elemen atau struktur. Kuat rencana dihitung dengan menggunakan faktor reduksi kekuatan.proses analisa mengacu pada Peraturan Beton Indonesia dan SNI T15-1991-03, juga adanya edisi baru, SNI 03-2874-2002. Beban pada struktur jembatan umumnya terdiri dari beban mati, beban hidup, beban angin, prategang, gempa, tekanan tanah pada struktur bawah atau abutment, tekanan air, dan lain-lain.

2.2.3. Material Beton Prategang

1. Beton

Beton adalah campuran air, mortar semen dan agregat serta suatu beban tambahan. Setelah beberapa jam dicampur, bahan-bahan tersebut akan langsung mengeras sesuai bentuk pada waktu basahnya. Campuran tipikal untuk beton dengan perbandingan berat adalah agregat kasar 44 %, agregat halus 31 %, dan air 7 %. Kekuatan beton ditentukan oleh kuat tekan karakteristik, pada usia 28 hari *f'c*. Kuat tekan karakteristik adalah tegangan yang melampaui 95 % dari pengukuran kuat tekan uniaksial yang diambil dari tes penekanan standar, yaitu dengan kubus ukuran 150 x 150 mm, atau silinder dengan diameter 150 mm dan tinggi 300 mm. Pengukuran kekuatan dengan kubus adalah lebih tinggi daripada dengan silinder. Rasio antara kekuatan silinder dan kubus adalah 0,8. Beton yang digunakan untuk beton prategang adalah yang mempunyai kekuatan tekan yang cukup tinggi dengan nilai *f'c* antara 30-45 Mpa. Kuat tekan yang tinggi diprelukan untuk menahan tegangan tekan pada serat tertekan, pengangkuran tendon, mencegah terjadinya keretakan, mempunyai modulus elastisitas yang tinggi dan mengalami rangka lebih kecil.

2. Baja

Baja yang dipakai untuk beton prategang dalam taktik ada empat macam, yaitu .

a. Kawat tunggal (*wires*), biasanya digunakan untuk baja prategang pada beton prategang dengan sistem pratarik.

b. Kawat (*strand*), biasanya digunakan untuk baja prategang untuk beton prategang dengan sistem pascatarik.
c. Kawat Batangan (*bars*), biasanya digunakan untuk baja prategang pada beton prategang dengan sistem pratarik.

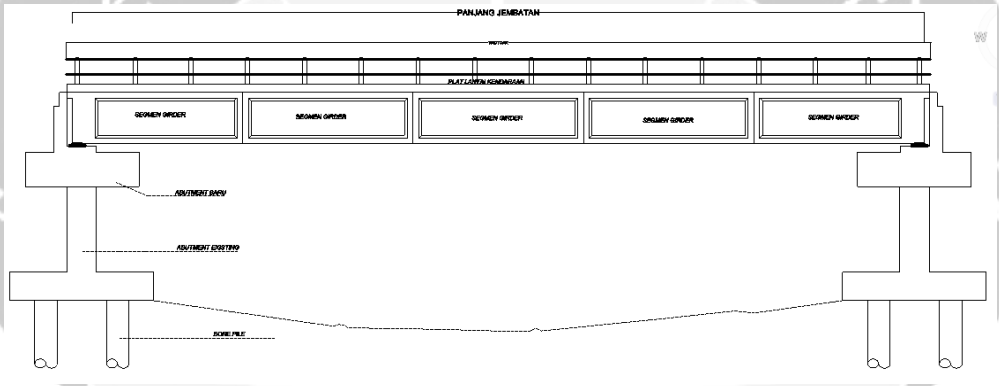
Kawat tunggal yang dipakai untuk beton prategang adalah yang sesuai dengan spesifikasi ASTM A 421 di Amerika Serikat. Ukuran dari kawat tunggal bervariasi dengan diameter 3-8 mm, dengan tegangan tarik *(fp*) antara 1500 – 17000 Mpa, dengan modulus elastisitas $Ep = 200 \times 10^3$ Mpa. Untuk tujuan desain, tegangan leleh dapat diambil sebesar 0,85 dari tegangan tariknya (*0,85 fp*).

BAB III

LANDASAN TEORI

3.1 Jembatan Beton Pratekan / Prategang

Jembatan adalah infrastruktur yang sangat penting karena berfungsi sebagai penghubung dua tempat yang terpisah akibat beberapa kondisi. Bagian – bagian yang membentuk jembatan diantaranya adalah sebagai berikut.



Gambar 3.1 Komponen Jembatan Prategang

1. *Girder* atau gelagar merupakan balok yang membentang secara memanjang maupun melintang yang berfungsi untuk menerima dan menyebarkan beban yang bekerja dari atas jembatan dan meneruskannya ke bagian struktur bawah jembatan.
2. *Abutment* atau lebih dikenal dengan perletakan jembatan berfungsi sebagai pendukung struktur jembatan sekaligus penerima beban dari gelagar dan meneruskannya ke tanah dasar.
3. *Railing* atau tiang sandaran pada jembatan berfungsi sebagai pembatas dan keperluan keamanan untuk pengguna jembatan.

4. Plat lantai jembatan merupakan bagian dari struktur atas jembatan dimana merupakan tempat kendaraan untuk lewat. Secara fungsi, plat lantai jembatan merupakan struktur pertama yang menerima beban dan meneruskannya ke gelagar utama.

Beton prategang atau beton pratekan merupakan beton bertulang yang telah diberikan tegangan tekan dalam untuk mengurangi tegangan tarik potensial dalam beton akibat beban (Manual Perencanaan Beton Pratekan Untuk Jembatan Dirjen Bina Marga, 2011). Jembatan beton pratekan atau yang dikenal dengan *PSC Bridge* merupakan salah satu jenis jembatan dengan material konstruksi beton pratekan atau beton yang berisi kabel baja dengan tujuan untuk memberikan tegangan awal berupa tegangan tarik terhadap beton akibat sifat beton yang tidak mampu menahan gaya tarik.

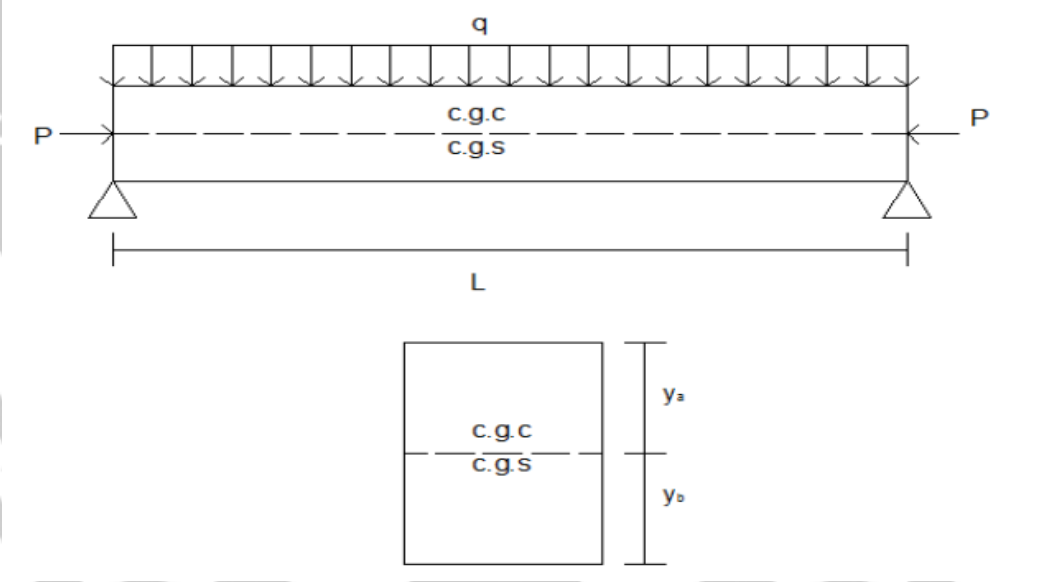
Dalam hal ini, beton pratekan sebagai solusi untuk mengatasi besarnya tegangan tarik yang timbul pada struktur beton khususnya pada struktur dengan bentang yang besar. Material yang digunakan untuk sistem ini adalah material beton dan sistem kabel. Sistem kabel, terdiri dari kabel (*wire*, *strand*), selongsong dan angkur baut (angkur hidup, angkur mati). Dalam perkembangannya ada 3 konsep beton pratekan yang menjelaskan bagaimana suatu sistem pratekan membantu menahan gaya luar, yaitu :

a. sistem pratekan yang bisa menjadikan beton sebagai bahan elastis yang bisa menahan tegangan tarik akibat dari beban luar. Konsep ini diperkenalkan oleh *Eugene Freyssinet*, dimana menurut teorinya beton yang telah diberikan

tegangan awal terlebih dahulu dapat bertransformasi menjadi bahan yang elastis. Kondisi ini menunjukan bahwa tegangan tarik pada beton tidak ada.

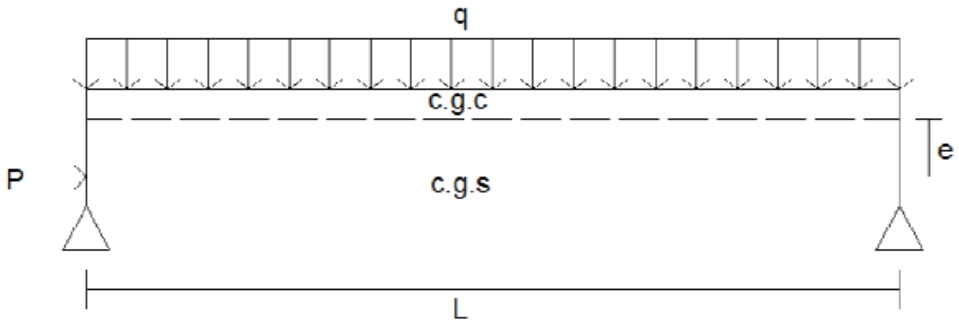
Pada kondisi ini , beton akan mengalami dua (2) kondisi yaitu :

1) gaya pratekan berada pada garis penampang atau dikenal dengan kondisi dimana *Centre Gravity of Concrete* (c.g.c) dan Centre *Gravity of Steel Tendon* (c.g.s) saling berhimpit. Kondisi seperti ini disebut gaya pratekan kosentris.



Gambar 3.2 Konsep Beton Kosentris

2) kondisi lainnya adalah gaya pratekan tidak bekerja pada garis penampang sehingga dapat disimpulkan bahwa *Centre Gravity of Concrete (cgc)* dan *Centre Gravity of Steel (cgs)* tidak berhimpit. Kondisi ini dikenal dengan gaya prategang *eksentris.*



Gambar 3.3 Konsep Beton *Eksentris*

Adapun besarnya tegangan yang diperhitungkan dalam kondisi ini adalah sebagai berikut .

a) serat Atas

Akibat gaya luar : $f_{1a} = -\frac{M.ya}{I}$ **.....(3.1)**

Akibat gaya pratekan : $f_{2a} = -\frac{P}{A} + \frac{Mp.ya}{I}$ **.....(3.2)**

Tegangan total : $f_a = -\frac{p}{A} + \frac{Mp.ya}{I} - \frac{M.ya}{I}$ **.....(3.3)**

b) serat Bawah

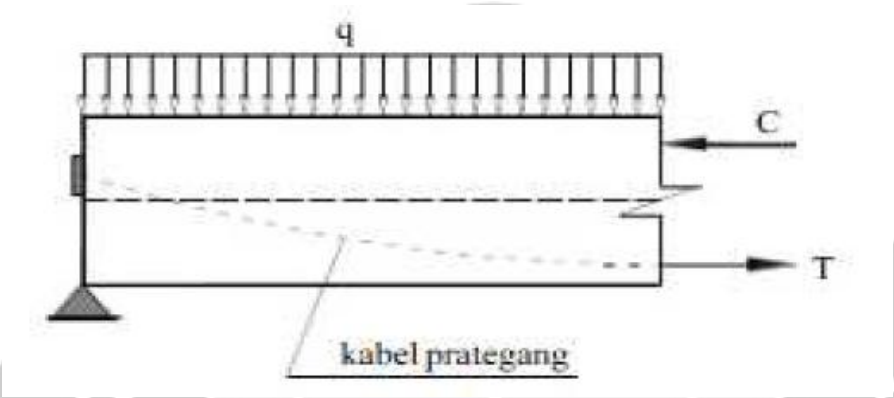
Akibat gaya luar : $f_{1b} = \frac{M.yb}{I}$ **.....(3.4)**

Akibat gaya pratekan : $f_{2b} = -\frac{P}{A} - \frac{Mp.yb}{I}$ **.....(3.5)**

Tegangan total : $fb = -\frac{P}{A} - \frac{Mp.yb}{I} - \frac{M.yb}{I}$ **.....(3.6)**

b. Sistem pratekan yang merupakan kombinasi baja mutu tinggi dengan beton mutu tinggi. Konsep ini merupakan kombinasi dua material yang menggambarkan bahwa beton merupakan material yang menahan gaya tekan

dan baja merupakan material yang menahan gaya tarik. Kedua gaya tersebut membentuk kopel gaya yang berfungsi untuk menahan gaya eksternal.



Gambar 3.4 Kombinasi Baja Mutu Tinggi dan Beton Mutu Tinggi

(Konstruksi Beton Pratekan, Ir.Soetoyo)

c. sistem pratekan untuk mencapai keseimbangan beban atau yang dikenal dengan metode *load balancing*. Dalam konsep ini dijelaskan bahwa gaya pratekan berperan untuk menyeimbangkan gaya luar. Konsep ini diperkenalkan pertama kalinya oleh *T.Y.Lin* yang menganggap bahwa beton sebagai benda bebas dimana tendon dan gaya pratekan berfungsi untuk melawan beban yang bekerja. Beban merata akibat gaya pratekan pada kondisi ini dinyatakan dalam :

$$w_b = \frac{8\,x\,F\,x\,h}{L^2} \qquad \textbf{.....(3.7)}$$

Dimana :

W_b : beban merata akibat gaya pratekan

h : tinggi lintasan kabel pratekan

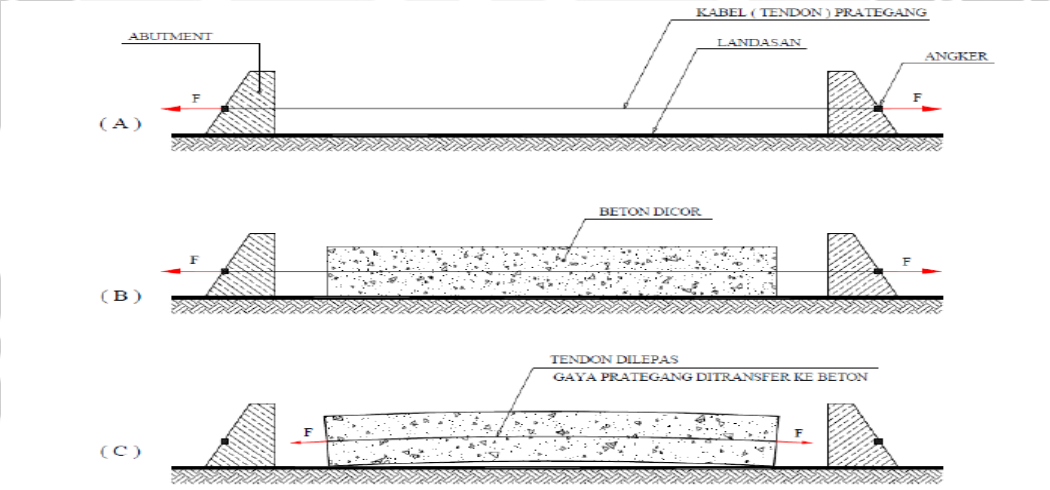
L : panjang bentang balok

F : gaya prategang

Berdasarkan konsepnya, beton diberikan gaya pratekan berbentuk tendon ataukabel baja. Pemberian gaya pratekan pada beton terdiri dari dua (2) cara, sebaai berikut .

1. Pra Tarik (*Pre-Tension)*

Prinsip kerja metode ini adalah kabel baja diregangkan terlebih dahulu sebelum beton dicetak. Awalnya tendon prategang ditarik kemudian dilakukan pengangkuran pada abutment. Setelah tendon terpasang, maka beton dapat dicetak. Setelah itu, tendon dapat dipotong sehingga gaya prategang dapat ditransfer ke beton. Pada kondisi ini, kuat tekan beton harus sesuai dengan yang disyaratkan. Konsep ini digambarkan sebagai berikut :

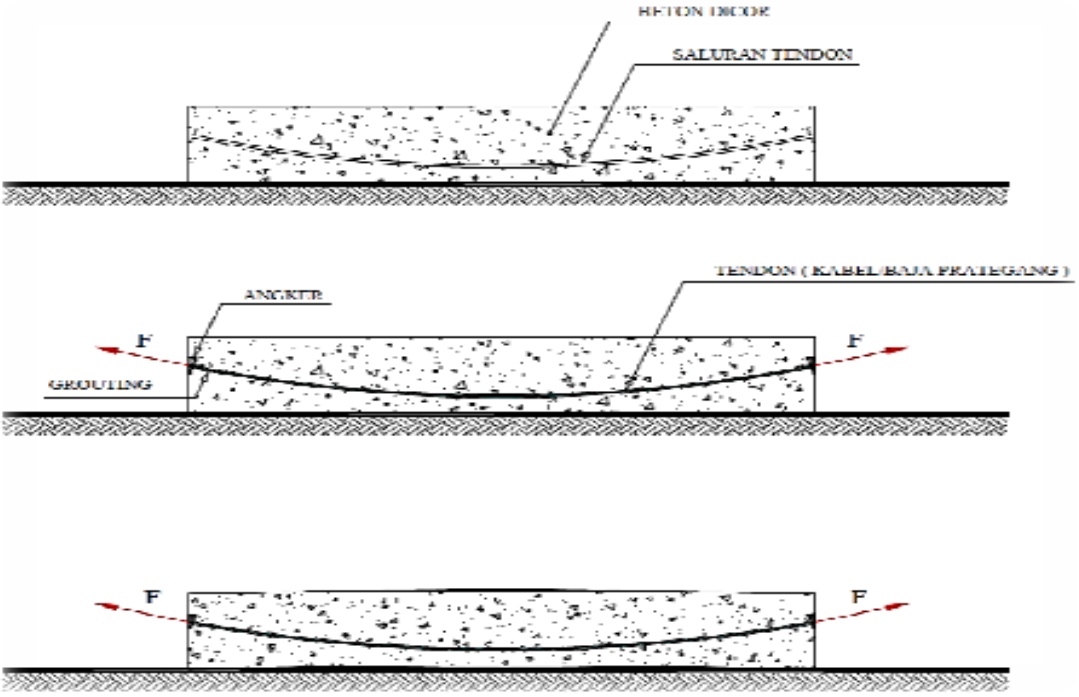


(Sumber: http://dc435.4shared.com/doc/WewLITgl/preview_html_m72a6766d.gif)

Gambar 3.5 Konsep Pra Tarik

2. Pasca Tarik (*Post-Tension*)

Prinsip kerja metode ini adalah beton dicetak terlebih dahulu beton kering kabel ditarik atau selubung tendon selama pengecoran dengan cara mengangkur kabel prategang ke abutment. Pada saat itu gaya prategang ditransfer ke beton sehingga beton akan tertekan. digambarkan sebagai berikut:



(Sumber: http://dc435.4shared.com/doc/WewLITgl/preview_html_m806b4cc.gif)

Gambar 3.6 Konsep Pasca Tarik

Adapun batas – batas tegangan SNI–T-12- 2004 tentang Perencanaan Struktur Jembatan Beton adalah sebagai berikut :

a. Pada kondisi transfer yaitu kondisi dimana belum terjadi kehilangan gaya pratekan, tegangan yang diijinkan adalah sebagai berikut :

1) Tegangan serat tekan terluar

2) Tegangan serat terluar

3) Tegangan tarik diujung elemen

Dimana :

Fc' = kuat tekan beton pada saat transfer atau saat penarikan kabel.

b. Pada kondisi beban layan yaitu kondisi dimana telah terjadi kehilangan gaya pratekan, tegangan yang diijinkan adalah sebagai berikut :

a. Tegangan tekan ijin akibat beban hidup tetap = *0.45 f'c*

b. Tegangan tekan ijin beban hidup total = *0.6 f'c*

c. Tegangan tarik = $\frac{1}{2}\sqrt{f'c}$

Dimana :

f'c = kuat tekan beton

3.2 Standar Pembebanan Jembatan

Faktor beban merupakan hal penting dalam perencanaan jembatan. Dimana diperlukan standar khusus untuk perencanaan pembebanan yang nantinya menjadi dasar dan patokan perencanaan pembebanan. Di Indonesia, standar perencanaan pembebanan untuk jembatan mengacu pada *Bridge Management System* tahun 1992 tentang Panduan Perencanaan Jembatan dan SNI-T-02-2005 tentang Standar Pembebanan Untuk Jembatan.

Berdasarkan SNI-T-02-2005 tentang Standar Pembebanan Untuk Jembatan, beban pada jembatan sebagai berikut :

1. Aksi Tetap

Aksi tetap pada jembatan dipengaruhi oleh berat sendiri elemen – elemen struktural jembatan, beban mati tambahan berupa utilitas, dan pengaruh dari penyusutan dan rangkak, faktor beban untuk berat sendiri adalah sebagai berikut :

Tabel 3.1 Faktor Beban untuk Berat Sendiri

Jangka Waktu	Faktor Beban		
	$K_{S;MS}$	$K_{U;MS}$	
		Biasa	Terkurangi
Tetap	Baja, aluminium 1.0	1.1	0.9
	Beton pracetak 1.0	1.2	0.85
	Beton dicor ditempat 1.0	1.3	0.75
	Kayu 1.0	1.4	0.7

(Sumber: SNI-T-02-2005 tentang Standar Pembebanan Untuk Jembatan)

Berdasarkan SNI-T-02-2005 tentang Standar Pembebanan untuk Jembatan, Istilah, definisi dan bagian 5 tentang aksi serta beban tetap, maka tabel diatas dapat dijelaskan sebagai berikut :

a. jangka waktu tetap adalah kondisi dimana beban bekerja sepanjang waktu dan beban tersebut bersumber dari beban tetap yang berada di sekitar jembatan.
b. faktor beban biasa adalah faktor beban yang digunakan apabila pengaruh dari gaya rencana untuk mengurangi keamanan.
c. faktor beban terkurangi adalah faktor beban yang digunakan apabila pengaruh dari aksi rencana untuk menambah keamanan.

d. faktor beban terkurangi biasanya digunakan untuk mengatasi apabila kerapatan masa struktur sangat besar. Secara batas kerapatan masa yang besar akan sangat aman untuk struktur tetapi tidak untuk kondisi lainnya sehingga harus digunakan faktor beban terkurangi.

e. sebaliknya, apabila kerapatan masa kecil maka dapat digunakan faktor bebanbiasa dimana keadaan ini merupakan keadaan paling kritis dari kondisi struktur.

f. nilai dari faktor beban diatas tidak bisa diubah.

Tabel 3.2 Berat Isi untuk Beban Mati

No	Bahan	Berat / Satuan Isi (kN/m^3)	Kerapatan Masa (kg/m^3)
1	Campuran aluminium	26.7	2720
2	Lapisan permukaan beraspal	22.0	2240
3	Besi tuang	71.0	7200
4	Timbunan tanah dipadatkan	17.2	1760
5	Kerikil dipadatkan	18.8 – 22.7	1920-2320
6	Aspal beton	22.0	2240
7	Beton ringan	12.25 – 19.6	1250-2000
8	Beton	22.0-25.0	2240-2560
9	Beton prategang	25.0-26.0	2560-2640
10	Beton bertulang	23.5-25.5	2400-2600
11	Timbal	111	11400
12	Lempung lepas	12.5	1280
13	Batu pasangan	23.5	2400
14	Neoprin	11.3	1150
15	Pasir kering	15.7 – 17.2	1600 – 1760
16	Pasir basah	18.0 – 18.8	1840 – 1920
17	Lumpur lunak	17.2	1760
18	Baja	77.0	7850
19	Kayu (ringan)	7.8	800
20	Kayu (keras)	11.0	1120
21	Air murni	9.8	1000
22	Air garam	10.0	1025
23	Besi tempa	75.5	7680

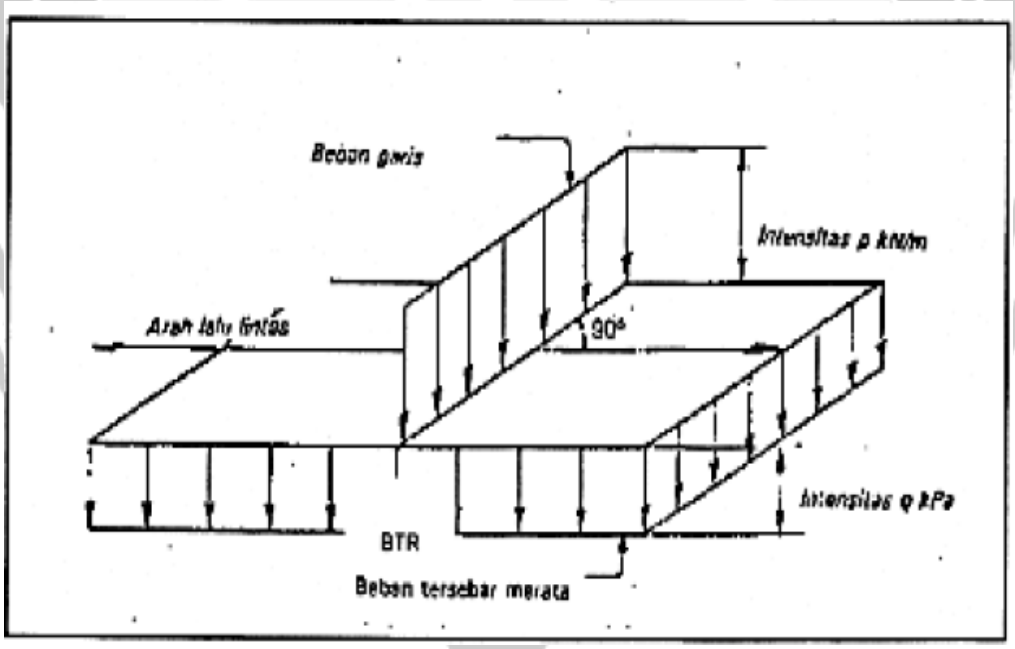
(Sumber: SNI-T-02-2005 tentang Standar Pembebanan Untuk Jembatan)

2. Beban Lalu Lintas

Beban lalu lintas pada sistim pembebanan jembatan terdiri atas beban lajur "D" dan beban truk "T". Beban lajur bekerja pada seluruh lebar jembatan sedangkan beban truk ditempatkan pada lajur lalu lintas rencana yang ada dilapangan.

a. beban lajur "D"

Beban lajur merupakan gabungan dari beban merata dan beban garis yang bekerja pada jembatan. Adapun gambaran beban yang bekerja seperti pada gambar berikut.



Gambar 3.7 Beban Lajur "D"

b. beban truk "T"

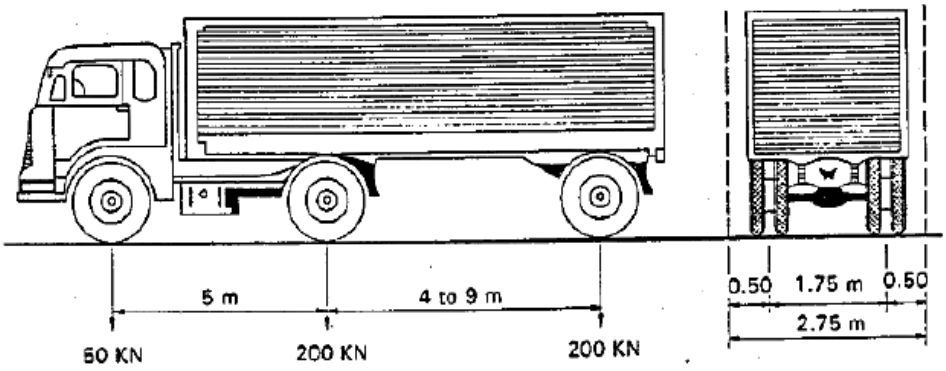
Beban truk merupakan kendaraan berat yang ditempatkan di lajur lalu lintas rencana. Di setiap satu lajur lalu lintas hanya bisa ditempatkan satu buah truk. Adapun jumlah lajur lalu lintas rencana adalah sebagai berikut .

Tabel 3.3 Jumlah Lajur Lalu Lintas Rencana

Jenis Jembatan	Lebar Jalan Kendaraan Jembatan (m)	Jumlah Lajur Lalu Lintas Rencana
Lajur tunggal	4.0 – 5.0	1
Dua arah, tanpa median	5.5 – 8.25 11.25 – 15.0	2 4
Jalan kendaraan majemuk	10.0 – 12.9 11.25 – 15.0 15.1 – 18.75 18.8 – 22.5	3 4 5 6

(Sumber: SNI-T-02-2005 tentang Standar Pembebanan Untuk jembatan)

Berdasarkan SNI-T-02-2005 tentang Standar Pembebanan Untuk Jembatan,susunan dan berat as dari truk yang digunakan untuk pembebanan jembatan seperti gambar berikut .



Gambar 3.8 Pembebanan Truk (SNI-T-02-2005)

Pada kasus tertentu, seperti truk terdapat 2 as saja maka berat yang di distribusikan oleh truk disesuaikan dengan berat aktual dari truk tersebut. Berdasarkan prinsipnya, distribusi beban truk ini bertujuan untuk memperoleh momen dan geser pada gelagadinamik untuk beban truk adalah 30%. Pada pembebanan truk momen lentur ijin rencana akibat beban truk dapat digunakan untuk pelat yang membentangi gelagar atau balok dalam arah melintang dengan panjang bentang antara 0.6 m dan 7.4. Benteng efektif yang digunakan adalah sebagai berikut :

1.) pelat lantai yang bersatu dengan balok atau dinding tanpa dilakukan peninggian, bentang efektif sama dengan bentang bersih.
2.) pelat lantai yang didukung pada gelagar dari bahan yang berbeda atau tidak dicor bersama, bentang efektif merupakan penjumlahan dari bentang bersih dan setengah lebar dudukan tumpuan.

c. aksi Lingkungan

Faktor lingkungan yang mempengaruhi sistim pembebanan jembatan adalah suhu dari struktur jembatan, drainase atau aliran air, beban angina, beban gempa dan tekanan tanah. Faktor – faktor diatas mempengaruhi pembebanan suatu jembatan tetapi untuk penelitian ini tidak memperhitungkan akibat beban dari lingkungan.

d. aksi Lainnya

Beban – beban yang termasuk dalam aksi lainnya adalah akibat gesekan pada tumpuan dan akibat getaran yang terjadi pada jembatan.Faktor – faktor ini juga diperhitungkan di lapangan. Dari beberapa faktor pembebanan yang telah

dijelaskan diatas, penelitian ini hanya mempertimbangkan beban akibat beban lalu lintas secara spesifik yaitu beban truk "T". Ini dikarenakan pengujian pembebanan yang dilakukan dilapangan hanya memperhitungkan akibat beban hidup yang bekerja dalam hal ini beban truk. Beban truk yang digunakan tidak melebihi beban yang distandarkan. Beban truk yang digunakan memiliki berat sebesar 27 ton.

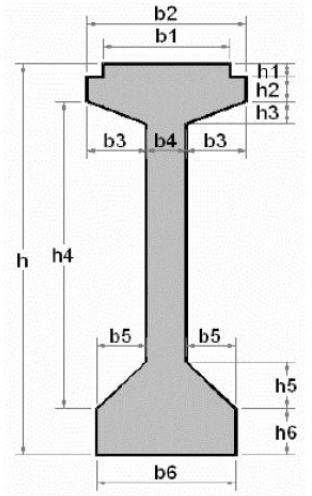
3.3 Analisa Tegangan Jembatan

Berdasarkan SNI 03 – 2874 – 2002 tegangan yang terjadi pada suatu konstruksi jembatan perlu ditinjau dari 2 (dua) kondisi :

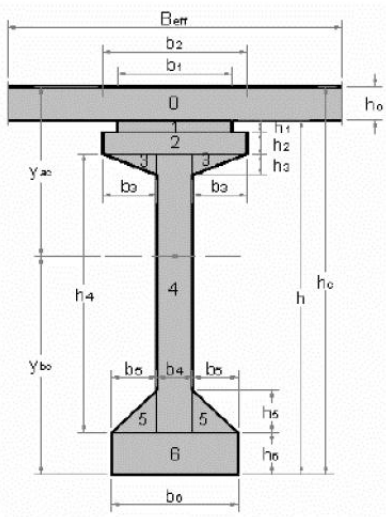
1. Pada kondisi transfer
2. Pada kondisi layan

Adapun contoh tahapan perhitungan tegangan pada gelagar jembatan adalah sebagai berikut :

a. dimensi penampang balok prategang harus jelas dan pasti



Gambar 3.9 Dimensi Penampang (M.Noer Ilham, 2008))



Gambar 3.10 Dimensi Penampang Komposit (M.Noer Ilham, 2008))

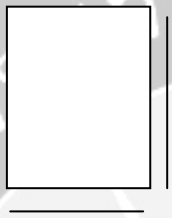
b. gaya prategang / pratekan dinyatakan dengan P dalam satuan Newton (N)

c. luas penampang beton prategang dalam satuan (mm) setiap segmen.

d. momen inersia penampang

penampang berbentuk *:* $A = bh$ .....(3.8)

Balok $L_{XO} = \frac{bh^2}{12}$ .....(3.9)



$I_{YO} = \frac{hb^2}{12}$ .....(3.10)

$I_X = \frac{bh^2}{3}$ .....(3.11)

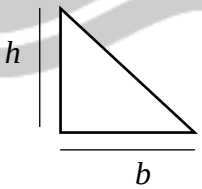
Gambar 3.11 Inersia Balok

Dimana :

b : lebar balok

h : tinggi balok

Segitiga = $A = \frac{bh}{2}$ .....(3.12)



$I_{XO} = \frac{bh^2}{36}$ .....(3.13)

$I_X = \frac{bh^3}{12}$ .....(3.14)

Gambar 3.12 Inersia Penampang Segitiga

Dimana :

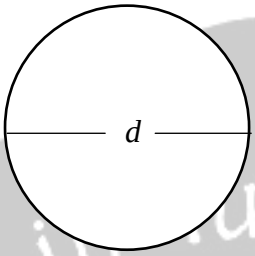
b : lebar balok

h : tinggi balok

Lingkaran = $A = \frac{wd^2}{4}$ .....(3.15)

$I_{XO} = \frac{\Pi d^4}{64}$ .....(3.16)

$I_{yO} = \frac{\Pi d^4}{64}$ .....(3.17)



Gambar 3.13 Inersia Penampang Lingkaran

Dimana :

d = diameter lingkaran

3. Momen yang bekerja pada beton ditinjau dari masing –masing bagian penamapang.
4. Perhitungan tegangan harus memperhatiakan tegangan ijin tekan tegangan ijin tarik pada beton yang telah disyratkan. Setelah itu, perhitungan tegangan mengacu pada sistem pratekan yang digunakan dan memperhitungkan tegangan pada rata atas dan rata bawah. Seperti yang dijelaskan sebelumnya pada bagian jembatan sistem pratekan tegangan pada gelar jembatan dinyatakan dalam σ dengan satuan (N/m) atau (Mpa). Adapun rumus dari tegangan yang digunakan adalah sebagai berikut :

$$\sigma = \frac{M}{w} \quad \text{.....(3.18)}$$

Dimana :

M = momen yang diakibatkan oleh beban (Nmm)

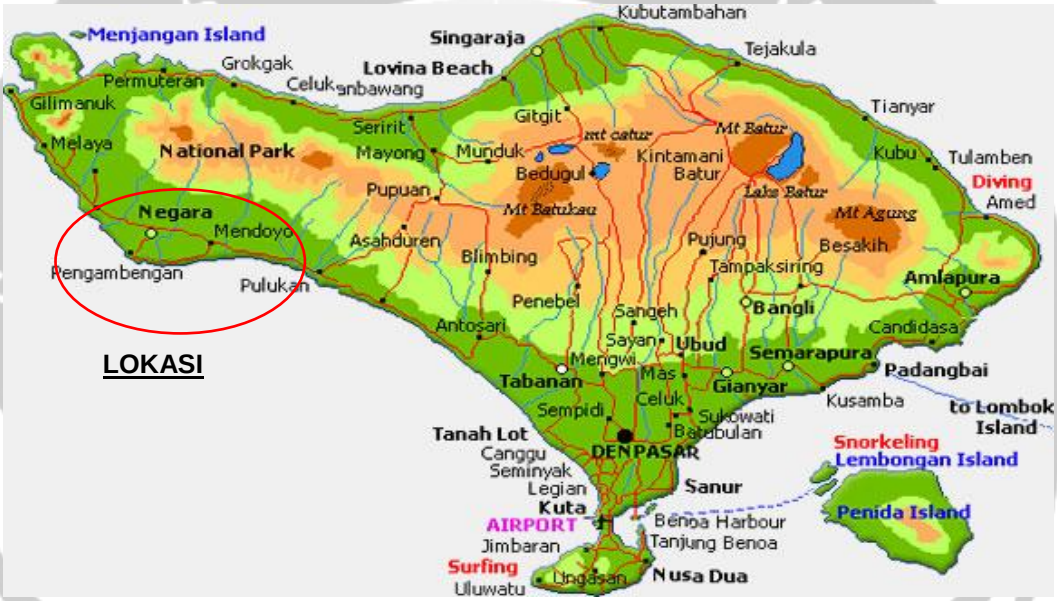
w = tahan momen (mm^3)

BAB IV

METODOLOGI PENELITIAN

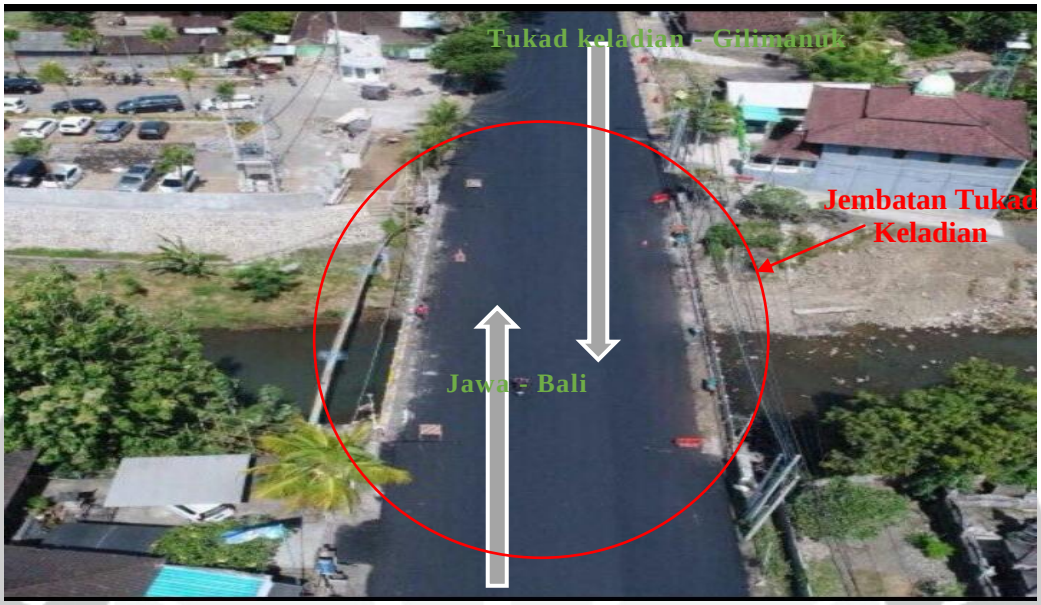
4.1 Lokasi

Lokasi yang dipakai sebagai bahan perancangan dalam tugas akhir terletak di Tukad Keladian, Kabupaten Jembrana, Provinsi Bali.



Gambar 4.1 Peta Lokasi Pulau Bali

Gambar 4.2 Letak Jembatan di Jalan Raya Denpasar - Gilimanuk



Gambar 4.3 *Layout* Tampak Atas Jembatan Tukad Keladian, Bali

4.2. Pengumpulan Data

Untuk mendapatkan suatu perencanaan yang baik maka perlu didukungoleh adanya data yang akurat, agar hasil perencanaan yang kita buat dapatmenjamin keamanan konstruksi. Data yang dibutuhkan sebagai bahan analisis dalam menyelesaikan tugas akhir.Data sekunder diperoleh dari kontraktor PT.Soyuren Indonesia berupa Perancangan Jembatan Pretegang Tukad Keladian, Bali. Data primer diperoleh dari pengamatan di lokasi jembatan untuk mendapatkan data tentang karakteristik lalu lintas dan volume lalu lintas. Studi pustaka bertujuan sebagai pelengkap teori dan pengetahuan tentang jembatan dan metode – metode yang akan dipergunakan dalam merancang jembatan.

4.3.Pengolahan Data

Dalam merancang ulang Jembatan Tukad Keladian ini penulis menggunakanmetoda perhitungan dengan cara menggunakan *software SAP 2000 v14* dan cara perhitungan manual yang sesuai dengan peraturan-peraturan yang berlaku.

4.4. Dasar-dasar Perancangan

Dalam perancangan jembatan ini dilakukan dengan langkah-langkahperhitungan dari peraturan-peraturan yang ada. Peraturan yang digunakan meliputi hal berikut.

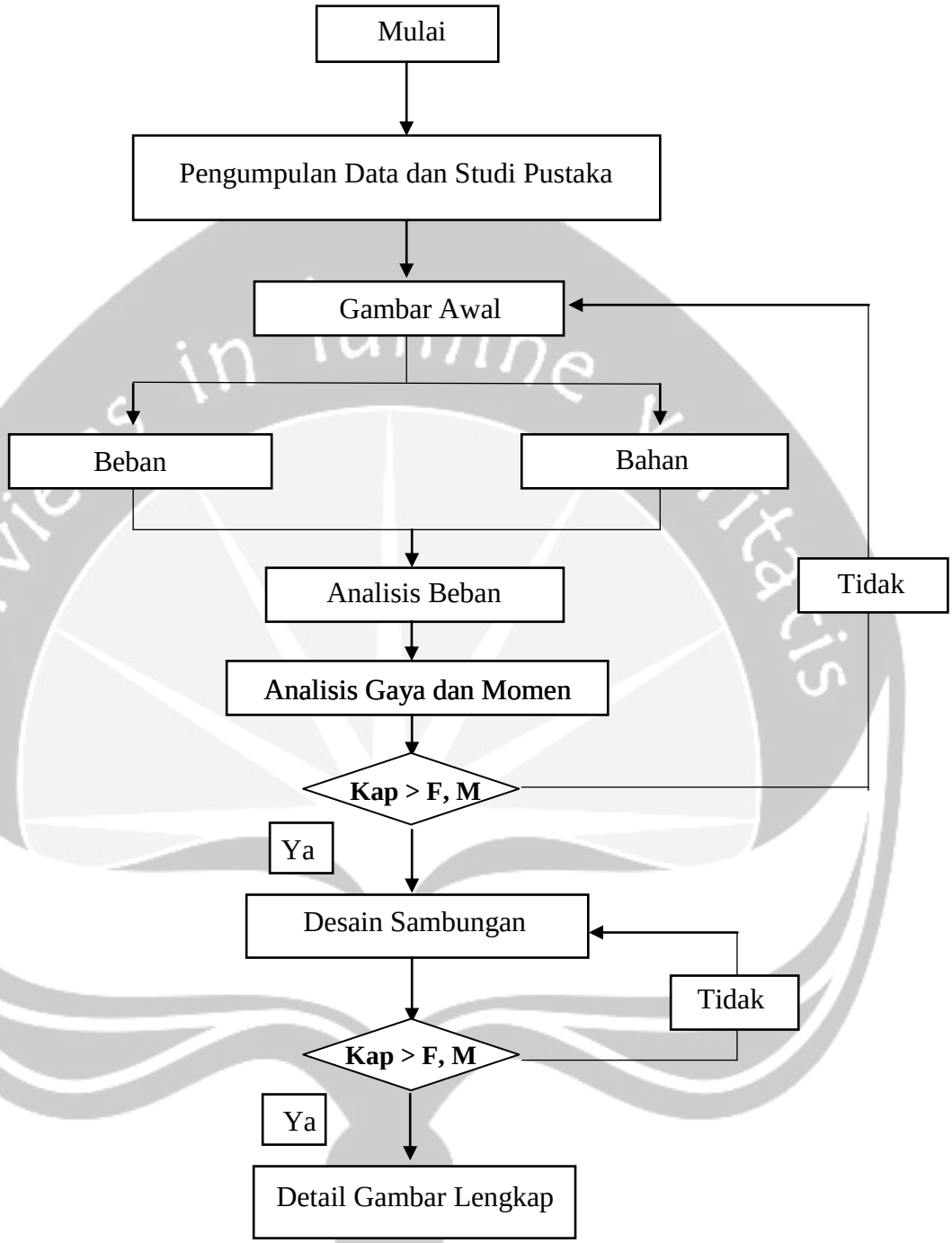
1. Pedoman Perencanaan Pembebanan Jembatan Jalan Raya (PPPJR) 1987.
2. *Brigde Management System* (BMS 1992).
3. Tata Cara Perhitungan Struktur Beton SK - SNI - T - 15 - 1991.
4. Peraturan Perencanaan Bangunan Baja Indonesia (PPBBI) 1993.

4.5 Tahapan Perancangan

Dengan adanya tahapan perancangan diharapkan terdapat pendekatan yang ilmiah terhadap data yang akan diolah. Langkah-langkah dalam penulisan TugasAkhir yang akan dilaksanakan oleh penulis adalah sebagai berikut.

1. Topik tugas akhir.
2. Pengumpulkan data yang diperlukan, seperti denah jembatan dan data penyelidikan tanah.

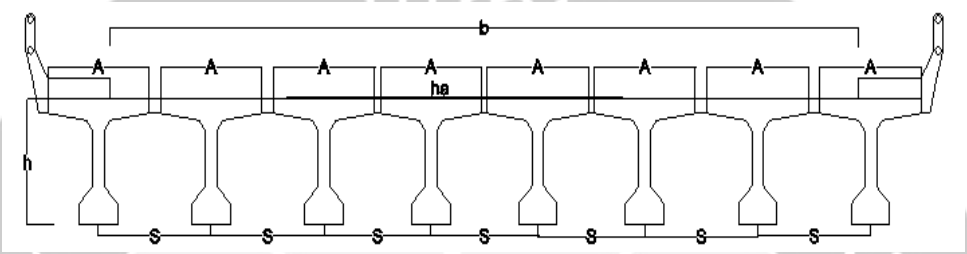
3. Literatur yang mengacu pada meteri perancangan yang akan dilakukan.
4. Penentuan gambaran awal rancangan jembatan.
5. Penentuan beban dan bahan rancangan.
6. Analisis beban, gaya dan momen sesuai standar dan aturan.
7. Perancangan elemen-elemen struktur jembatan dan sambungan berdasarkan hasil perhitungan. Adapun susunan/diagram alir yang digunakan dalam perancangan ini adalah sebagai berikut.


Mulai
Pengumpulan Data dan Studi Pustaka
Gambar Awal
Beban
Bahan
Analisis Beban
Analisis Gaya dan Momen
Kap > F, M
Tidak
Ya
Desain Sambungan
Tidak
Kap > F, M
Ya
Detail Gambar Lengkap

BAB V

PERHITUNGAN PEMBEBANAN

5.1 Perhitungan PCI - GIRDER



Gambar 5.1 Penampang Jembatan

a.) Data Jembatan

Uraian	Notasi	Dimensi
Panjang balok prategang	*L*	30 m
Jarak antara balok prategang	*s*	1,80 m
Tebal lapisan aspal + *overlay*	*ha*	0,04 m
Tinggi genangan air hujan	t_h	0,50 m

b.) *Spesicfic Gravity*

Jenis Bahan	Berat
Beton Prategang w_c =	25,5 kN/m^3
Beton bertulang w_c' =	25,0 kN/m^3
Beton w_c'' =	24,0 kN/m^3
Aspal W_{aspal} =	22,0 kN/m^3
Air Hujan W_{air} =	9,8 kN/m^3

c.) Dimensi Balok T

Cross section

H = 1800 mm

A = 1700 mm

A_1 = 400 mm

B = 650 mm

t_{fl1} = 200 mm

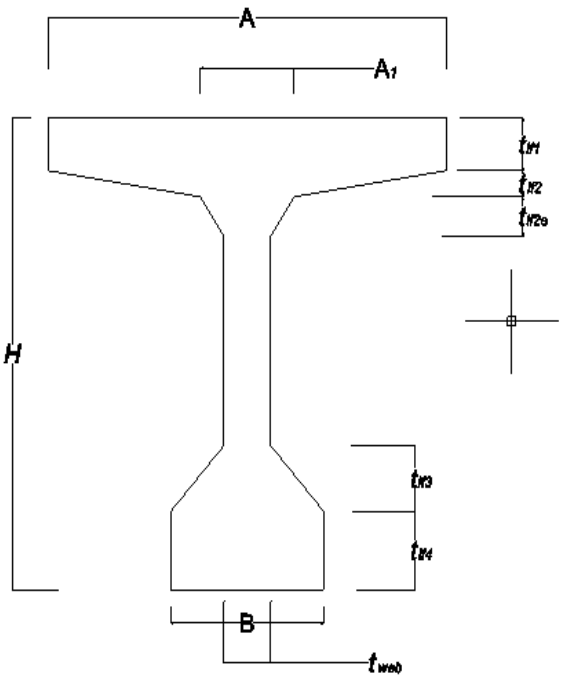
t_{fl2} = 100 mm

t_{fl2a} = 150 mm

t_{fl3} = 250 mm

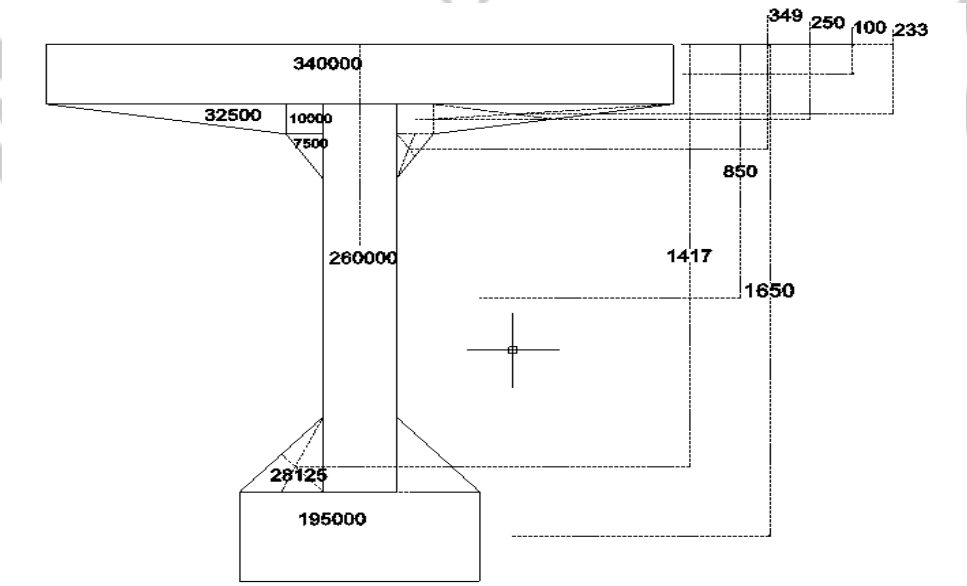
t_{fl4} = 300 mm

T_{web} = 200 mm



Gambar 5.2 Dimensi Balok T

d.) Titik Berat Balok T



Gambar 5.3 Titik Berat Balok T dari As

Tabel 5.1 Titik Berat Balok T

No	Luas (cm2)	Jarak terhadap AS (cm)	As x Titik berat (cm3)
1	340000	100	34000000
2	65000	233,33	15166450
3	20000	250	5000000
4	15000	349,24	5238600
5	260000	850	221000000
6	56250	1416,67	79687687,5
7	195000	1650	3,22E+08
		Total =	681842737,5
		Total/Luas blok T =	716,8

5.1.1. Beton

Mutu beton girder prestress	K	-	400	kg/cm^2
Kuat tekan beton	$fc' = 0.83 * K / 10$ =		33,20	Mpa
Modulus elastik beton	$Ec = 4700 * \sqrt{fc'}$ =		27081,137	Mpa
Angka Poisson	u =		0,15	
Modulus geser	$G = Ec / [2*(1 + u)]$ =		11774,408	Mpa
Koefisien mulai panjang untuk beton	α =		0,00001	/ ºC
Kuat tekan beton pada keadaan awal (saat transfer)	$fci' = 0.80 * fc'$ =		0	Mpa
Tegangan ijin beton saat penarikan — Tegangan ijin tekan	$0.60 * fci'$ =		0,00	Mpa
Tegangan ijin beton saat penarikan — Tegangan ijin tarik	$0.50 * \sqrt{fci'}$ =		0,00	Mpa

Tegangan ijin beton pada keadaan akhir	Tegangan ijin tekan	$0.45 * fc' =$	0	Mpa
	Tegangan ijin tarik	$0.50 * \sqrt{fc'} =$	0,000	Mpa

Maka material menurt SNI 2002 Beton : 33,2 Mpa

Tulangan utama :	fy =	390	Mpa
	fu =	500	Mpa
Tulangan sengkang :	fy =	300	Mpa
	fu =	380	Mpa

5.1.2. Baja Prategang

Jenis *strands Uncoated 7 wire super strands ASTM A-416 grade 270*

Tegangan leleh strand	F_{py} =	1580	Mpa	
Kuat tarik strand	f_{pu} =	1840	Mpa	
Diameter nominal strands		12,7	mm	(=1/2")
Luas tampang nominal satu strands	Ast =	98,7	mm^2	
Beban putus minimal satu strands Pbs	P_{bs} =	187,32	kN(100%UTS)	
Jumlah kawat untaian (*strands cable*) =	19	Kawat untaian/ tendon		
Diameter selubung ideal	84	mm		
Luas tampang strands	1875,3	mm^2		
Beban putus satu tendon	P_{b1} =	3559,10		KN(100%UTS)
Modulus elastis strands E_s	E_s =	193000	Mpa	
Tipe dongkrak	VSL-19			

5.1.3. Baja Tulangan

Untuk baja tulangan *deform* D > 12 mm	U -	32	
Untuk baja tulangan polos Ø < 12 mm	U -	24	
Kuat leleh baja	$fy = U*10 =$	320	kg/cm^2
Kuat leleh baja	$fy = U*10 =$	240	kg/cm^2

5.2. Perhitungan Lebar Efektif Plat Lantai

	L/4 =	0	m
	s =	0	m
Diambil lebar efektif plat lantai	B_e =	1,9	m

Kuat tekan beton plat $fc'_{(plat)} = 0.83 * K_{(plat)} =$ 0 Mpa

Kuat tekan beton balok $fc'_{(balok)} = 0.83 * K_{(balok)} =$ 0 Mpa

Modulus elastik plat beton $E_{plat} = 4700 \sqrt{fc'_{(plat)}} =$ 0 Mpa

Modulus elastik balok beton prategang $E_{balok} = 0.043 * (wc)\ 1.5 * \sqrt{fc'_{(balok)}} =$ 0 Mpa

Nilai perbandingan modulus elastik plat dan balok $n = E_{plat} / E_{balok} =$ #DIV/0!

Jadi lebar pengganti beton plat lantai jembatan $Beff = n * Be =$ #DIV/0!

Untuk menghindari hambatan dan kesulitan pada saat pengangkutan, maka balok prategang dibuat dalam bentuk segmental, dengan berat per-segmen maksimum 80 kN sehingga dapat diangkut dengan truck kapasitas 80 kN, kemudian segmen-segmen balok tersebut disambung di lokasi jembatan.

5.3. *Section* Properti Balok Prategang

Tinggi total balok prategang h = 0 m

Luas penampang balok prategang A = 0,951 m

ho = 0,2 m

Bef = #DIV/0! m

Tabel 5.2 Letak Titik Berat Balok T

No	Lebar (m)	tinggi (m)	Luas (m^2)	Jarak terhadap alas(y)	Momen statis AxY (m^3)	Momen inersia A x Y^2 (m^4)	Momen Inersia (lo) (m^4)
	b	h	A				
1	1,70	0,2	0,34	-0,10	-0,034	0,0034	0,001133
2	0,20	1,3	0,26	-0,85	-0,221	0,1879	0,036617
3	0,10	0,1	0,01	-0,25	-0,003	0,0006	8,33E-06
4	0,10	0,1	0,01	-0,25	-0,003	0,0006	8,33E-06
5	0,65	0,1	0,03	-0,23	-0,008	0,0018	5,42E-05
6	0,65	0,1	0,03	-0,23	-0,008	0,0018	5,42E-05
7	0,10	0,2	0,01	-0,35	-0,003	0,0009	2,81E-05
8	0,10	0,2	0,01	-0,35	-0,003	0,0009	2,81E-05
9	0,23	0,3	0,03	-1,33	-0,038	0,0500	0,000293
10	0,23	0,3	0,03	0,32	0,009	0,0028	0,000293
11	0,65	0,3	0,20	-0,85	-0,166	0,1409	0,001463
		Total =	0,95		-0,474788	0,39157	0,03998

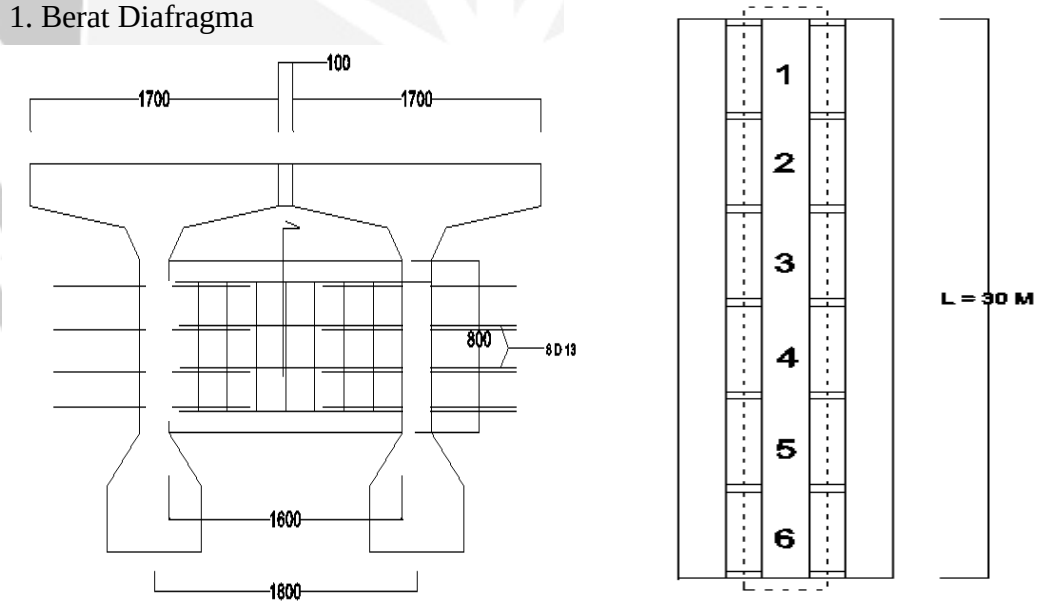
Keterangan gambar : dapat di lihat pada gambar 5.1 Titik Berat Balok T

Bef =	1,7	lebar fektif	ΣA =	0,9513 cm^2
	0 m		*ya = h - yb* =	0,4991 m
	Titik Berat		*Yb = ΣA x y : ΣA*	-0,4991 m
momen inersia terhadap alas balok,			*Ib = ΣA x y + Io* =	-0,4348 m^4
Momen inersia terhadap titik berat balok			*Ix = Ib - A * yb* ^{2} =	-0,3453 m^4
Tahanan momen sisi atas :			*Wa = Ix / ya* =	0,7366 m^3
Tahanan momen sisi bawah :			*Wb = Ix / yb* =	0,6918 m^3

5.4. Pembebanan Balok Prategang

5.4.1. Berat Sendiri (MS)

1. Berat Diafragma



Gambar 5.4. Detail Diafragma dan Jumlah Diafragma

w_c =	25 Kn		
Ukuran diafragma	*= P x Lx T* =	0,648 m	
Berat 1 buah diafragma	*w* =	16,2 KN	

Jumlah diafragma n = 6

W diafragma (total) = 97,2 KN

Panjang bentang	L =	0 m	(dari tengah bentang)
Jarak diafragma :	x_3 =	15 m	(dari tengah bentang)
	x_2 =	9 m	(dari tengah bentang)
	x_1 =	3 m	(dari tengah bentang)
	x_0 =	0 m	(dari tengah bentang)

Momen maks di tengah bentang L

M_{max} = (1/2 * n * x3 - x2 - x1) * W = 534,6 KNm

Berat diafragma ekivalen, $Q_{diafragma}$ = 8 * M_{max} / L^2 = #DIV/0! KN/m

2. Berat Balok Prategang

Panjang balok prategang,L = 0 m

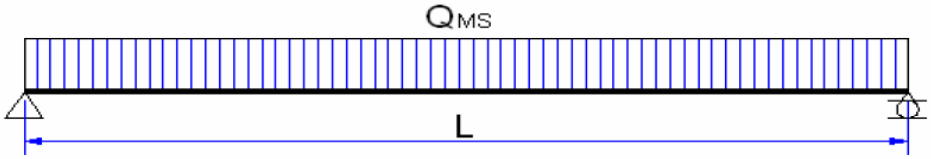
Berat balok prategang + 10 %,

Q_{balok} = W_{balok} / L = #DIV/0! KN/m

Luas penampang, A = 0,951 m^2

W_{balok} = A * L * w_c = 0,000 Kn

3. Gaya Geser Akibat Berat Sendiri (MS)



Gambar 5.5 Gaya Geser (QMS)

*QMS = A * w* =	15,4103 KN/m	Gaya geser, *VMS = 1/2 * QMS * L*	0 KN
L =	0 m	Momen, *MMS = 1/8 * QMS * L* ^{2}	0,0 KNm

Tabel 5.3 Momen Akibat Berat Sendiri

JB	Lebar (m)	Tebal (m)	Luas A (m^2)	Berat sat W (kN/m^3)	Beban Q_{MS} (kN/m)	Geser V_{MS} (kN)	Momen M_{MS} (kNm)
BP			0,95	25	23,781	0,00	0,00
PL	1,7	0,2	0,34	25	8,5	0,00	0
D					#DIV/0!	#DIV/0!	#DIV/0!
				Total =	#DIV/0!	#DIV/0!	#DIV/0!

Keterangan : *JB :* Jenis Beban *PL :* Pelat Lantai

BP : Balok Prategang *D :* Diafragma

5.4.2. Beban Mati Tambahan (MA)

Beban mati tambahan *(superimposed dead load)* , adalah berat seluruh bahan yang menimbulkan suatu beban pada balok (girder) jembatan yang merupakan elemen non-struktural, dan mungkin besarnya berubah selama umur jembatan. Girder jembatan direncanakan mampu memikul beban mati tambahan berupa :

a. Aspal beton setebal 50 mm untuk pelapisan kembali di kemudian hari (*overlay*)

b. Genangan air hujan setinggi 50 mm apabila saluran drainase tidak bekerja dengan baik

Beban, *QMA = A * w* (kN/m)

Panjang bentang, L = 0 m

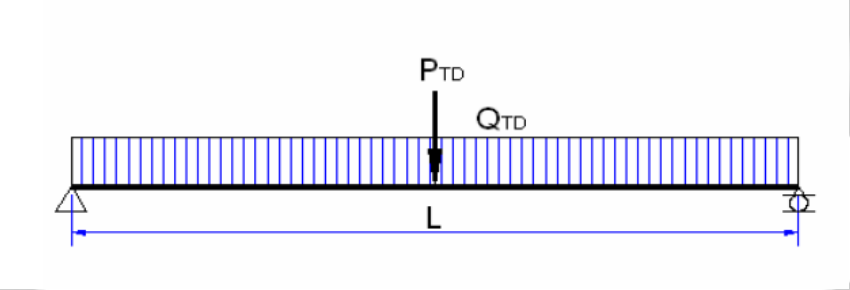
Gaya geser, VMA = *1/2 * QMA * L* kN

Momen, MMA = $1/8 * QMA * L^2$ kNm

Tabel 5.4 Jenis Beban Mati Tambahan

Lebar (b)	1,7	1,7	(m)		
Tebal (h)	0,10	0,05	(m)		
Luas (A)	0,17	0,09	(m^2)		
Beban sat W	22	9,81	(kNm^3)	Total	
Beban Qma	3,74	0,83	(kNm)	4,57385	(kNm)
Geser Vma	0,00	0,00	(KN)	0	(kN)
Momen (MMA)	0	0,00	(kNm)	0	(kNm)

5.4.3 Beban Lajur "D" (TD)



Gambar 5.6 Beban Lajur "D"

Beban lajur "D" terdiri dari beban terbagi merata (*Uniformly Distributed Load*), UDL dan beban garis (*Knife Edge Load*), KEL seperti terlihat pd. gambar. UDL mempunyai intensitas q (kPa) yang besarnya tergantung pada panjang total L yang dibebani dan dinyatakan dengan rumus sebagai berikut :

$q = 8.0$ kPa		untuk	$L \leq 30$ m
$q = 8.0 * (0.5 + 15 / L)$ kPa		untuk	$L \leq 30$ m
KEL mempunyai	44 KNm	(TETAPAN)	

Faktor beban dinamis (*Dinamic Load Allowance*) untuk KEL diambil sebagai berikut :

DLA = 0.4	untuk	L ≤ 50 m
DLA = 0.4 - 0.0025*(L - 50)	untuk	50 < L < 90 m
DLA = 0.3	untuk	L ≥ 90 m

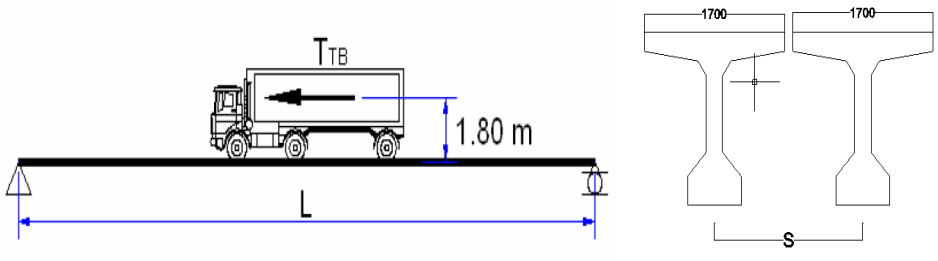
panjang balok *L* =		30	m
Jarak antara balok prategang, *s* =		0	m
Beban merata	*q = 8.0 *(0.5 + 15 / L)* =	#DIV/0!	kpa
Beban merata pada balok	*QTD = q * s* =	#DIV/0!	KN/m
Beban garis	*p* =	44	KN/m
Faktor beban dinamis	DLA =	0,4	
Beban terpusat pada balok	*PTD = (1 + DLA) * p * s* =	0	KN

Gaya geser dan momen maksimum pada balok akibat beban lajur "D" :

*VTD = 1/2 * QTD * L + 1/2 * PTD* = #DIV/0!

MTD = 1/8 QTD * L* ^{2} *+ 1/4*PTD * L* = #DIV/0!

5.4.4. Gaya Rem (TB)



Gambar 5.7 Gaya Rem (TB)

Pengaruh pengereman dari lalu-lintas diperhitungkan sebagai gaya dalam arah memanjang, dan dianggap bekerja pada jarak 1.80 m di atas permukaan lantai jembatan Besarnya gaya rem arah memanjang jembatan tergantung panjang total jembatan (Lt) sebagai berikut :

Gaya rem, HTB =	250	kN	untuk	Lt ≤ 80 m
Gaya rem, HTB =	*250 + 2.5*(Lt-80)*	kN	untuk	80 < Lt <180 m
Gaya rem, HTB =	500	kN	untuk	Lt ≥ 180 m

panajang balok (L) =	30	m	
gaya Rem , HTB =	250	kN	(1 balok = 6 m ,jadi bentang 30 = 5 balok)
Jumlah balok prategang untuk jalur selebar b_1, n_{balok} =	5		
jarak antra balok prategang (S)	0	m	
Gaya rem untuk Lt ≤ 80 m : *TTB = HTB/ n_{Balok}*	50	kN	

Gaya rem, TTB = 5 % beban lajur "D" tanpa faktor beban dinamis

*QTD = q * s* =	#DIV/0!	kNm
*PTD = p * s* =	0	kN
*TTB = 0.05 * (QTD * L + PTD)* =	#DIV/0!	
Diambil gaya rem, TTB =	50 kN	> #DIV/0!
Lengan thd. Ttik berat balk, *y = 1.80 + ha + y_{ac}* =	2,299	m
Beban momen akibat gaya rem , *M = TTB * y* =	114,956	kNm

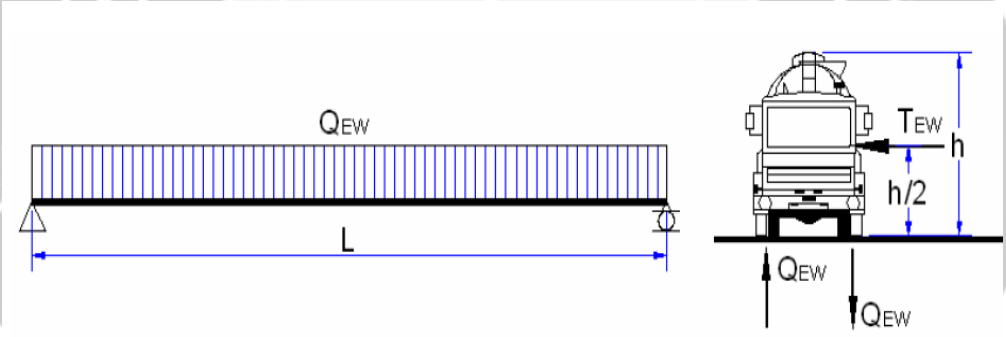
Gaya geser dan momen maksimum pada balok akibat gaya rem

VTB = M / L = 3,832 kNm

*MTD = 1/2 * M =* 57,478 kNm

5.4.5. Beban Angin (EW)

Beban garis merata tambahan arah horisontal pada permukaan lantai jembatan akibat angin yang meniup kendaraan di atas lantai jembatan dihitung dengan dengan rumus : $TEW = 0.0012*Cw*(Vw)^2$ kN/m



Gambar 5.8 Beban Angin

Cw = koefisien seret = 1,2

Vw = Kecepatan angin rencana = 35 m/det

$TEW = 0.0012*Cw*(Vw)^2$ = 1,8 KN/m

Bidang vertikal yang ditiup angin merupakan bidang samping kendaraan dengan tinggi 2 m di atas lantai jembatan

h = 2 m

jarak antara roda (x) = 1,75 m

Transfer beban angin ke lantai jembatan

*QEW = [1/2*h / x * TEW]* = 1,01 KN/m

panjang balok L = 30 m

Gaya geser dan momen maksimum akibat beban angin :

*VEW = 1/2 * QEW * L* = 15,12 KN

*MEW = 1/8 * QEW * L2* = 113,40 KNm

5.4.6. Beban Gempa (EQ)

Gaya gempa vertikal pada balok prategang dihitung dengan menggunakan percepat vertikal ke bawah minimal sebesar 0.10*g (g = percepatan gravitasi) atau dapat diambil 50% koefisien gempa horisontal statik ekivalen. Koefisien beban gempa horisontal : $K_h = C * S$

Kh = Koefisien beban gempa horisontal,

C = Koefisien geser dasar untuk wilayah gempa, waktu getar, dan kondisi tanah setempat,

S = Faktor tipe struktur yg berhubungan dengan kapasitas penyerapan energi gempa (daktilitas) dari struktur. Waktu getar struktur dihitung dengan rumus :

$$T = 2 * \Pi * \sqrt{[\ Wt / (g * KP)\ ]}$$

Wt = Berat total yang berupa berat sendiri dan beban mati tambahan

KP = Kekakuan struktur yg merupakan gaya horisontal yg diperlukan untuk menimbulkan satu satuan lendutan.

g = percepatan grafitasi bumi =	9,81	m/det^2
Berat total yang berupa berat sendiri dan beban mati tambahan :	$Wt = PMS + PMA$	
Berat sendiri, Q_{MS} =	#DIV/0!	kN/m
Beban mati tambahan, Q_{MA} =	4,5739	kN/m
Panjang bentang balok, L =	30	m
$Wt = (Q_{MS} + Q_{MA}) * L$ =	#DIV/0!	kN/m
Momen inersia balok prategang lxc =	-0,35	
Modulus elastik, Ec =	360000 Mpa =	3,6E+07 kPa
Kekakuan balok prategang, $Kp = 48 * Ec * Ixc / L^3$ =	-21896	kN/m

Waktu getar, $T = 2 * \Pi * \sqrt{[\ Wt / (g * KP)\ ]}$ = #DIV/0! det

Untuk lokasi di wilayah gempa 4 di atas tanah sedang, dari kurva S diperoleh koefisien geser dasar, Tabel SNI 2008 (hal.10)

Untuk struktur jembatan dengan daerah sendi plastis beton prategang penuh,

$S = 1.3 * F$ C = 0,11 dengan,

$F = 1,10 - 0.025 * n$ dan F harus diambIL ≥ 1

F = faktor perangkaan

n = jumlah sendi plastis yang menahan deformasi arah lateral.

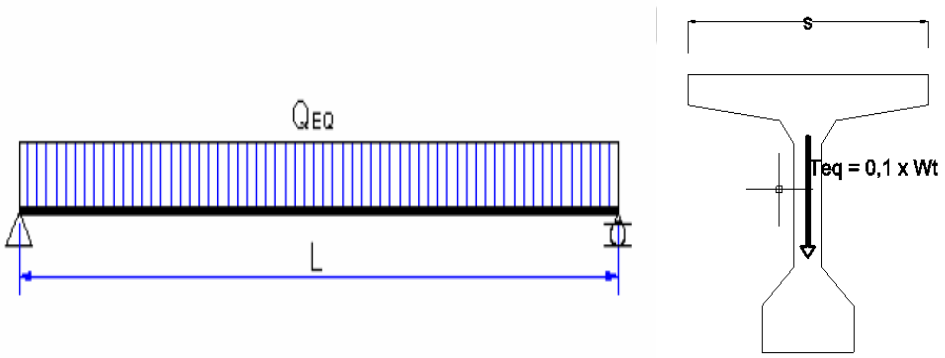
Untuk, n = 1 maka, $F = 1,10 - 0.025 * n$ = 0,0275

Faktor tipe struktur,	$S = 1.3 * F$ =	0,03575		
Koefisien beban gempa horisontal	$Kh = C * S$ =	0,00393		
Koefisien beban gempa vertikal	$Kv = 50\% * Kh$ =	0,00197	<	0,1

DIAMBIL : KV = 0,1

Gaya gempa vertikal, $TEQ = Kv * Wt$ = #DIV/0! KN

Beban gempa vertikal, $QEQ = TEQ / L$ = #DIV/0! KN/m



Gambar 5.9 Gaya Beban

Gaya geser dan momen maksimum akibat beban gempa vertikal :

$VEQ = 1/2 * QEQ * L =$ #DIV/0! KN

$MEQ = 1/8 * QEQ * L^2 =$ #DIV/0! KN/m

5.4.7. Resume Momen Dan Gaya Geser Pada Balok

Tabel 5.5 Momen dan Gaya Geser Balok

No	Jenis Beban	kode beban	Q (KN/m)	P (KN)	M (KNm)	KETERANGAN
1	Berat balok prategang	balok	#DIV/0!	-	-	Beban merata, Qbalok
2	Berat sendiri	MS	#DIV/0!	-	-	Beban merata, QMS
3	Mati tambahan	MA	4,574	-	-	Beban merata, QMA
4	Lajur "D"	TD	#DIV/0!	0,000	-	Beban merata, QMA + Terpusat TD
5	Gaya rem	TB	-	-	114,956	Beban momen, MTB
6	Angin	EW	1,008	-	-	Beban merata, QEW
7	Gempa	EQ	#DIV/0!	-	-	Beban merata, QEQ
8	Berat pelat lantai sendiri	pelat	8,5	-	-	Beban merata, Qplat

Panjang bentang balok, L = 30 m

Digunakan sengkang berpenampang : 2 ϕ 6

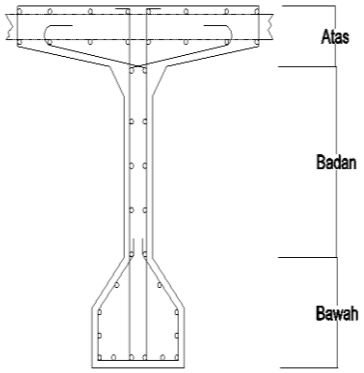
Tabel 5.6 Luas Tulangan Geser Sengkang

No	Jenis Beban	Persamaan Momen	Persamaan Gaya geser
1	Berat sendiri	*Mx = 1/2*QMS*(L*X - X2)*	*Vx = QMS*(L/2 - X)*
2	Mati tambahan	*Mx = 1/2*QMA*(L*X - X2)*	*Vx = QMA*(L/2 - X)*
3	Lajur "D"	*Mx = 1/2*QTD*(L*X - X2) + 1/2*PTD*X*	*Vx = QTD*(L/2 - X) + 1/2*PTD*
4	Gaya rem	*Mx = X / L * MTB*	*Vx = MTB / L*
5	Angin	*Mx = 1/2*QEW*(L*X - X2)*	*Vx = QEW*(L/2 - X)*
6	Gempa	*Mx = 1/2*QEQ*(L*X - X2)*	*Vx = QEQ*(L/2 - X)*

Momen maksimum akibat berat balok $M_{balok} = 1/8 * Q_{balok} * L^2$ = #DIV/0! KNm

Momen maksimum akibat berat plat, $M_{plat} = 1/8 * Q_{plat} * L^2$ = 956,25 KNm

5.4.8. Pembesian Balok Prategang



Gambar 5.10 Pembesian Balok Prategang

Tulangan arah memanjang digunakan besi diameter D 13 mm

$As = \Pi / 4 * D^2$ = 0,00013 m^2

Luas tampang bagian bawah : A bawah = 0,301 m^2

Luas tulangan bagian bawah : As bawah = 0.5% * A bawah = 0,002 m^2

Jumlah tulangan = As bawah / (Π /4 * D^2) = 11,4 buah

Digunakan : 12 D 13

Luas tampang bagian atas : A atas = 0,425 m^2

Luas tulangan bagian atas : As atas = 0.5% * Aatas = 0,002 m^2

Jumlah tulangan = As atas / (Π /4 * D^2) = 16 buah

Digunakan : 16 D 13

Luas tampang bagian badan : A badan = 0,205 m^2

Luas tulangan susut memanjang bagian badan : As badan = 0.5% * Abadan = 0,001 m^2

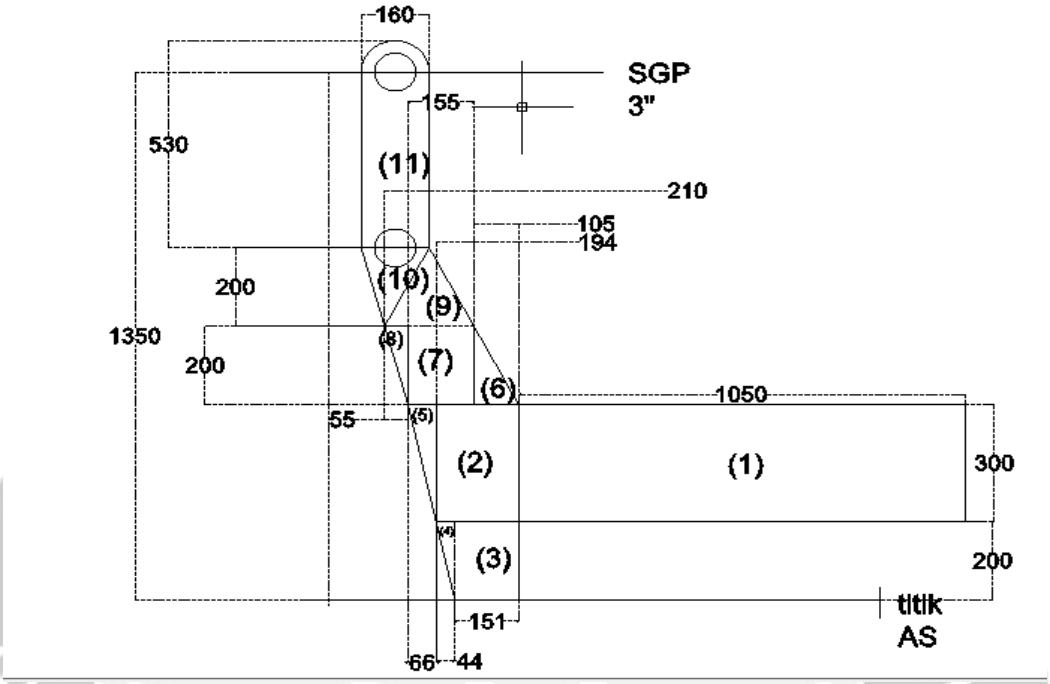
Jumlah tulangan = *As badan / (Π /4 * D^2) =* 8 buah

Digunakan : 10 D 13

5.5 Perhitungan Slab Trotoar

5.5.1. Berat Sendiri Trotoar

Jarak antara tiang =	2 m	Tegangan ijin =	1600 kg/m
berat =	25 KNm	lebar =	14,70 m
diameter baja(d) =	48,6 mm	momentahan/modulus (w) =	4,36 cm^3
tebal(t) =	2,8 mm	berat(g) =	3,16 kg/m



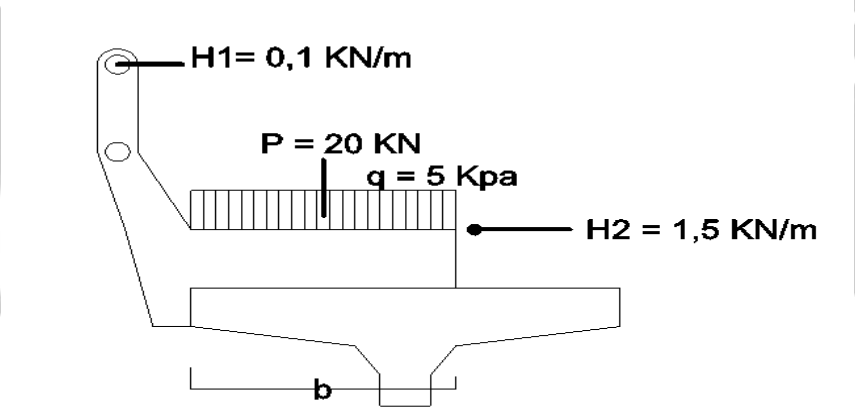
Gambar 5.11 Panjang , Lebar dan Potongan Trotoar

Tabel 5.7 Berat Trotoar

No	Lebar	Tinggi	Potongan	Panjang	Berat	Lengan	Moment
	(m)	(m)		(m)	KN	(m)	KNm
1	1,05	0,3	1,0	2,0	15,75	0,325	5,119
2	0,19	0,3	0,5	2,0	5,82	0,947	5,512
3	0,15	0,2	1,0	2,0	1,50	0,925	1,388
4	0,04	0,2	0,5	2,0	0,88	1,015	0,893
5	0,07	0,3	0,5	2,0	1,98	1,066	2,111
6	0,11	0,2	0,5	0,15	2,10	0,885	1,859
7	0,16	0,2	1,0	0,15	1,55	1,033	1,600
8	0,06	0,2	0,5	0,15	1,10	1,128	1,241
9	0,21	0,2	0,5	0,15	4,20	0,920	3,864
10	0,16	0,2	0,5	0,15	3,20	0,903	2,891

No	Lebar	Tinggi	Potongan	Panjang	Berat	Lengan	Moment
	(m)	(m)		(m)	KN	(m)	KNm
11	0,16	0,53	1	0,15	4,24	1,035	4,388
12	sgp" 3 =		0,63	4	2,52	1,35	3,402
				total =	29,58	total =	18,480
			Beban dead per meter =	Pms =	14,790	Mms=	9,240

5.5.2. Beban Hidup Pada Pedestrian



Gambar 5.12 Beban Hidp Pada Pedestrian

Beban hidup pada pedestrian per meter lebar tegak lurus bidang gambar :

Tabel 5.8 Jenis Beban Gaya Lengan Momen

No	jenis beban		gaya	lengan	momen
1	Beban horisontal pada railing	*H1*	0,75	1,35	1,013
2	Beban horisontal pada kerb	*h2*	1,50	0,15	0,225
3	Beban vertikal terpusat	*p*	20	0,53	10,500
4	Beban vertikal merata	$q*b^2$	6,50	0,53	3,411
		Momen akibat beban hidup pada pedestrian		Mtp =	15,149

5.5.3. Moment Ultimet Rencana

Faktor beban ultimit untuk berat sendiri pedestrian	KMS =	1,3	
Faktor beban ultimit untuk beban hidup pedestrian	KTP =	2	
Momen akibat berat sendiri pedestrian : MMS	MMS =	17,13	kNm
Momen akibat beban hidup pedestrian : MTP	MTP =	15,15	kNm
Momen ultimit rencana slab trotoar	*Mu = KMS x MMS + KTP x MTP*		
	Mu =	52,57	kNm

5.5.4. Pembesian Slab Trotoar

mutu beton	K -	300	Kuat tekan beton, f_c' =	24,9	Mpa
mutu baja	K -	39	Tegangan leleh baja, f_y =	390	Mpa
			Tebal slab beton, h =	200	mm
			Jarak tulangan terhadap sisi luar beton, d' =	30	mm
			Modulus elastis baja, E_s =	200000	
			Faktor bentuk distribusi tegangan beton, β_1 =	0,85	
			$Pb = \beta1 * 0.85 * f_c' / f_y * 600 / (600 + f_y)$ =	0,028	
			$Rmax = 0.75 * Pb * f_y * [1 - ½ * 0.75 * Pb * f_y / (0.85 * f_c')]$ =	6,598	
			Faktor reduksi kekuatan lentur, ϕ =	0,8	
			Faktor reduksi kekuatan geser, ϕ =	0,6	
			Momen rencana ultimit, Mu =	52,5708	kNm
			Tebal efektif slab beton, $d = h - d'$ =	170	mm

Ditinjau slab beton selebar 1 m, b =	1000	mm	
Momen nominal rencana, $Mn = Mu / \phi$ =	65,7135	kNm	
Faktor tahanan momen, $Rn = Mn * 10\text{-}6 / (b * d2)$ =	2,274E-12	=	2,27

Rn < Rmax (OK)

Rasio tulangan yang diperlukan :

$P = 0.85 * f_c' / f_y * [1 -(\sqrt{1-2 * Rn / (0.85 * f_c')}]$ =	0,0062	
Rasio tulangan minimum, P min = $25\%*(1.4 / f_y)$ =	0,0009	
Rasio tulangan yang digunakan, P =	0,0062	
Luas tulangan yang diperlukan, $As = P \times b \times d$ =	1049,14	mm^2
Diameter tulangan yang digunakan, D	16	
Jarak tulangan yang diperlukan, $s = \Pi / 4 * D^2 * b / As$ =	191,547	mm
Digunakan tulangan, D 16 -	150	
$As = \Pi / 4 * D^2 * b /$ s =	1339,7	mm^2
$As' = 50\% * A$ s =	524,57	mm^2
Diameter tulangan yang digunakan, D	13	mm
Jarak tulangan yang diperlukan, $s = \Pi / 4 * D^2 * b / As$ =	126,451	mm
Digunakan tulangan, D 13 -	150	
$As' = \Pi / 4 * D^2 * b / s$ =	884,433	mm^2

5.6 Perhitunan Tiang Railing

5.6.1. Beban Pada Tiang Railing

Jarak antara tiang railing	L =	2	
Beban horisontal pada railing	H_1 =	1	KN/m
Gaya horisontal pada tiang railing	$HTP = H_1 * L$ =	2,00	KN

Lengan terhadap sisi bawah tiang railing		y =	0,93	m
Momen pada pada tiang railing	$Mtp = Htp * y$ =		1,86	KN/m
Faktor beban ultimit		KTP =	2	
Momen ultimit rencana	$Mu = KTP * MTP$ =		3,72	KN/m
Gaya geser ultimit rencana	$Vu = KTP * HTP$ =		4	KN

5.6.2. Pembesian Tiang Railing

a.) Tulangan Lentur

Mutu beton : K -	300	kuat teka beton =	F_c' =	24,9 Mpa
Mutu baja : K-	24	tegangan leleh baja =	F_y =	240 Mpa
		Tebal tiang railing	h =	150 mm
		Jarak tulangan terhadap sisi luar beton	d' =	35 mm
		Modulus elastis baja	E_s =	200000
		Faktor bentuk distribusi tegangan beton	β_1 =	0,85
		$Pb = \beta1 * 0.85 * fc' / fy * 600 / (600 + fy)$ =		0,05354
		$Rmax = 0.75 * Pb * fy * [1 - ½*0.75* Pb * fy / (0.85 * fc')]$ =		7,44335
		Faktor reduksi kekuatan lentur,	ϕ =	0,8
		Faktor reduksi kekuatan geser,	ϕ =	0,6
		Momen rencana ultimit,	Mu =	3,72 Knm
		Tebal efektif tiang railing, $d = h - d'$ =		115 mm
		Lebar tiang railing,	b =	150 mm
		Momen nominal rencana, $Mn = Mu / ϕ$ =		4,65 Knm
		Faktor tahanan momen, $Rn = Mn * 10^{-6} / (b * d^2)$ =	2,344E-12 =	2,344045

Rn < Rmax (OK)

Rasio tulangan yang diperlukan :

$P = 0.85 * f_c' / f_y * [1 - \sqrt{} * [1 - 2 * Rn / (0.85 * f_c')] =$ 0,01038

Rasio tulangan minimum, $P\ min = 1.4 / fy =$ 0,00583

Rasio tulangan yang digunakan $P =$ 0,01038

Luas tulangan yang diperlukan, $As = P*b*d =$ 179,0

Diameter tulangan yang digunakan D - 13

Jumlah tulangan yang diperlukan, $n = A_s / (\Pi / 4 * D^2) =$ 1,349

Digunakan tulangan, 2 D 13

b.) Tulang Geser

Perlu tulangan geser

Gaya geser ultimit rencana, $V_u =$ 4 KN

Gaya geser ultimit rencana, $V_u =$ 4000 N

$V_c = (\sqrt{f_c'}) / 6 * b * d =$ 3149 N

$\phi * V_c =$ 1889,4 N

$\phi * V_S = V_u - \phi * V_c =$ 2110,6 N

$V_S =$ 3517,667 N

Digunakan sengkang berpenampang : 2 P 6 - 150

5.7 Gaya Prategang

5.7.1. Kondisi awal (saat transfer)

Mutu beton, K - 400 kg/cm^2

Kuat tekan beton, $fc' = 0.83 * K * 100 =$ 33200 kPa

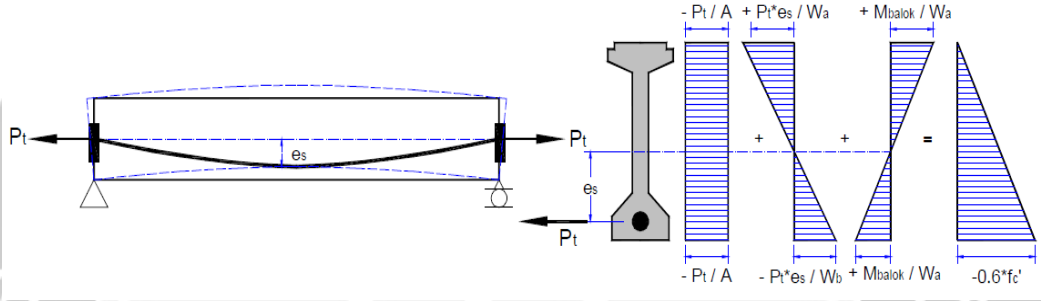
Kuat tekan beton pada kondisi awal (saat transfer),

$fci' = 0.80 * fc' =$ 26560 kPa

Section properties, $W_a =$ 0,7366 m^3

$W_b =$ 0,6918 m^3

$A =$ 0,9513 m^2



Gambar 5.13 Eksentrisitas Tendon

Ditetapkan jarak titik berat tendon terhadap alas balok, z_0 0,165 m

Eksentrisitas tendon, $e_s = y_b - z_0 =$ -0,66 m

Eksentrisitas tengah tendon, $e_{st} = 1{,}2*H - z_0 =$ 0,74 m

Momen akibat berat sendiri balok, $M_{balok} =$ 0,00 kNm

Tegangan di serat atas,

$0 = - Pt / A + Pt * e_s / W_a - M_{balok} / W_a$ .....(persamaan 1)

Tegangan di serat bawah,

$0.6 * fci' = - Pt / A - Pt * e_s / W_b + M_{balok} / W_b$ .....(persamaan 2)

Besarnya gaya prategang awal,

Dari persamaan (1) : $P_t = M_{balok} / (e_s - W_a / A) =$ 0

Dari persamaan (2) : $P_t = [\ 0.60 * fci' * W_b + M_{balok}\ ] / (W_b / A + e_s) =$ 174597,9

Diambil besarnya gaya prategang, $P_t =$ 0 KN

5.7.2. Kondisi Akhir

Digunakan kabel yang terdiri dari beberapa kawat baja untaian *Stands cable* standar VSL, dengan data sebagai berikut :

Data *Strands Cable* - Standar VSL

Jenis strands	*Uncoated 7 wire super strands ASTM A-416 grade 270*	
Tegangan leleh strand f_{py} =	1580000	kPa
Kuat tarik strand f_{pu} =	1860000	kPa
Diameter nominal strands	0,0127	m
Luas tampang nominal satu strands A_{st} =	0,0001	m^2
Beban putus minimal satu strands P_{bs} =	187,32	kN (100% UTS atau 100% beban putus)
Jumlah kawat untaian (strands cable)	19	kawat untaian tiap tendon
Diameter selubung ideal	84	mm
Luas tampang strands	0,00188	m^2
Beban putus satu tendon P_{b1} =	3559,08	kN (100% UTS atau 100% beban putus)
Modulus elastis strands E_s =	1,9E+08	kPa
Tipe dongkrak	VSL 19	

Gaya prategang awal : P_t = 0,00 KN

Beban putus satu tendon : P_{b1} = 3559,08 KN

Beban putus minimal satu strand : P_{bs} = 187,32 KN

Gaya prategang saat *jacking* : $P_j = P_{t1} / 0.85$ persamaan (1)

$P_j = 0.80 * P_{b1} * n_t$ persamaan (2)

a.) Dari persamaan (1) dan (2) diperoleh jumlah tendon yang diperlukan :

$n_t = P_t / (0.85*0.80*P_{b1}) =$ 0,00 Tendon

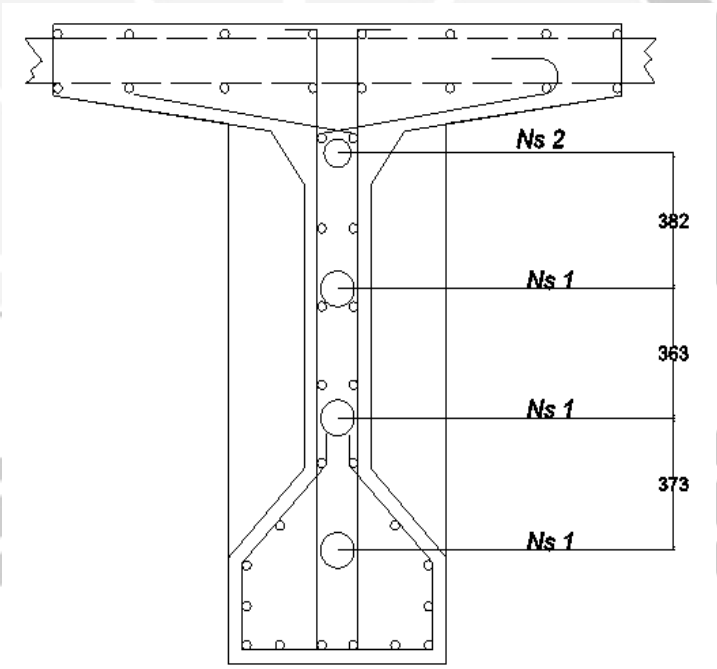
Diambil jumlah tendon, nt = 4 Tendon

b.) Jumlah kawat untaian (strands cable) yang diperlukan :

$n_s = P_t / (0.85*0.80*P_{bs}) =$ 0,00 strands

Diambil jumlah strands, n_s = 69 strands

Posisi baris tendon :



Gambar 5.14 Posisi Tendon Pada Penulangan Balok Prategang

n_{s1} =	3	Tendon	19	*strands* / tendon =	57
n_{s2} =	1	Tendon	12	*strands* / tendon =	12
total =	4			total =	69

Persentase tegangan leleh yang timbul pada baja (*% Jacking Force*) :

$p_o = Pt / (0.85 * ns * Pbs) =$ 0,00% < 80% (OK)

Gaya prategang yang terjadi akibat *jacking* :

$P_j = p_o * n_s * P_{bs} =$ 0,0 kN

Gaya prategang akhir setelah kehilangan tegangan (*loss of prestress*) sebesar 30% :

Diperkirakan kehilangan tegangan atau gaya (*loss of prestress*) = 30%

Gaya prategang akhir setelah kehilangan tegangan (*loss of prestress*) sebesar 30% :

$P_{eff} = (100\% - 30\% * P_j =$ 0 KN

5.7.3 Modulus Penampang Atas dan Bawah Balok Komposit

Atas $S_{ac} = \dfrac{\textit{momen inesia balok}}{y_a} = \dfrac{0,00}{0,4991}$

$= 0 \text{ cm}^3$

Bawah $S_{bc} = \dfrac{\textit{momen inesia balok}}{y_b} = \dfrac{0,00}{-0,4991}$

$= 0 \text{ cm}^3$

Radius girasi penampang :

$r_{2c} = \dfrac{\textit{momen inesia balok}}{\textit{Luas penampang balok}} = \dfrac{0,00}{0,9513}$

$= 0 \text{ m}^2$

Eksentrisitas :

$e_c = y_b$ – jarak tendon terhadap tepi bawah penampang = -0,66 m

Modulus penampang atas dan bawah balok prategang

Atas $S_t = \frac{momen\ inesia\ balok}{garis\ netral\ terhadap\ tepi\ atas} = \frac{0,00}{0,9000}$

$= 0\ cm^3$

Bawah $S_b = \frac{momen\ inesia\ balok}{garis\ netral\ terhadap\ tepi\ bawah} = \frac{0,00}{0,9000}$

$= 0\ cm^3$

dengan, Rasio prategang residual (γ) = 0,8

Modulus penampang atas (S_t)

$St \geq \frac{(1-y)MD+MA+ML}{Y.Fti-Fcf}$ maka, $S_t \geq$ #DIV/0! m^3

Modulus penampang bawah (Sb)

$Sb \geq \frac{(1-y)MD+MA+ML}{Fti-Y.Fcf}$ maka, $S_b \geq$ #DIV/0! m^3

Penampang balok prategang yang telah direncanakan memenuhi persyaratan modulus penampang atas dan bawah

(S_t) atas = 0 ≥ #DIV/0! m^3

(S_b) bawah = 0 ≥ #DIV/0! m^3

5.7.4 Menentukan Posisi Tendon

a. Posisi di Tumpuan

Diambil jarak dari alas balok ke as baris tendon ke - 4 : (a') 0,32 m

Jumlah tendon baris ke-4 : n = tendon 12 strands

Jumlah tendon baris ke-3 : n = tendon 19 strands

Jumlah tendon baris ke-2 : n = tendon 19 strands

Jumlah tendon baris ke-1 : n = tendon 19 strands

Jumlah strands, n_s = 69 strands

y_e = Letak titik berat tendon terhadap pusat tendon terbawah Letak titik berat penampang balok terhadap alas, y_b = -0,50 m

Momen statis tendon terhadap pusat tendon terbawah :

N_i	Y_d	$N_i * Y_d$
12	0	0
19	1	19
19	2	38
19	3	57
Total $(\Sigma n_i * y_{d'} / y_{d'})$=		114

$\Sigma n_i * y_{d'} = n_s * y_e$

$y_e / y_{d'} = [\Sigma n_i * y_{d'} / y_{d'}] / n_s$ = 1,652

$y_e = y_b - a'$ = -0,8191 m

$y_{d'} = y_e / [\, y_e / y_{d'} \,] =$ -0,49578 m

$z_o = a' + y_e = y_b =$ -0,4991 m

b. Posisi Tendon di Tengah Bentang

Diambil jarak dari alas balok ke as baris tendon ke-1 : (a) = 0,16 m

Jumlah tendon baris ke-1 : n_{t1} = 3

Jumlah tendon baris ke-2 : n_{t4} = 1

n_t = 4

tendon 19 strands = 57

tendon 12 strands = 12

n_s = 69

Eksentrisitas, e_{st} = 0,735 m

$z_o = y_b - e_s$ = 0,165 m

yd = jarak vertikal antara as ke as tendon.

Momen statis tendon terhadap alas :

$n_s * z_o = n_1 * a + n_2 * (a + y_d)$

$y_d = n_s * (z_o - a) / n_2$ = 0,35 m

$y_{d'}$ diambil = 0,32 m

Diameter selubung tendon, dt = 0,076 m

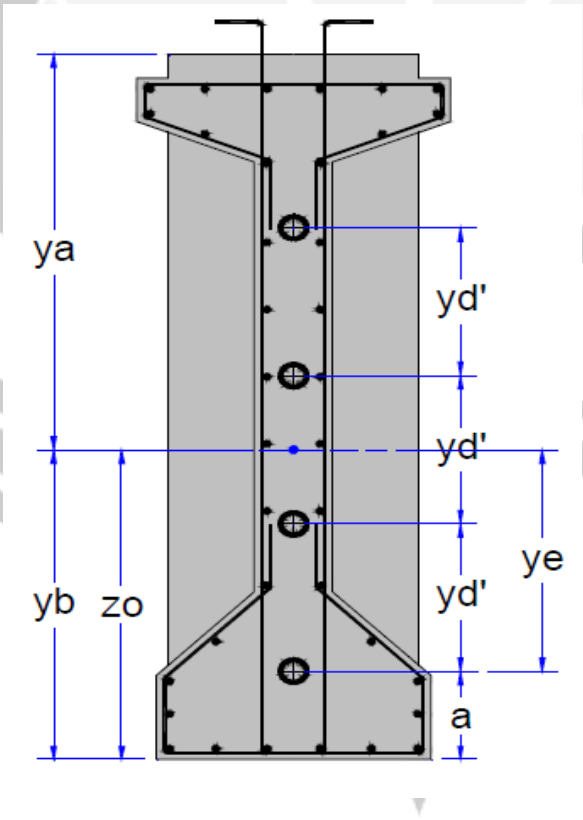
Jarak bersih vertikal antara selubung tendon = $y_d - d_t$ = 0,244 m

> 25 mm (OK)

Eksentrisitas Masing - masing Tendon

1. Posisi Pada Tumpuan

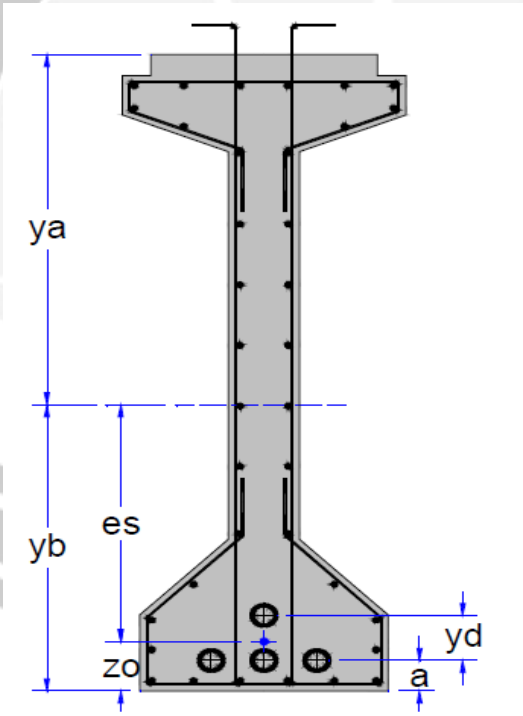
Nomor Tedon	Posisi Tedon di Tumpuan x = 0.00 m	$Z_{i'}$ (m)
1	$Z_{1'} = a' + 3 * y_{d'}$	1,28
2	$Z_{2'} = a' + 2 * y_{d'}$	0,96
3	$Z_{3'} = a' + y_{d'}$	0,64
4	$Z_{4'} = a'$	0,32



Gambar 5.15 Posisi Tendon Pada Tumpuan

2. Posisi Pada Tengah Betang

Nomor Tedon	Posisi Tedon di Tengah Bentang x = 0.00 m	Z_i (m)		$Fi = Z_{i'} - Z_i$
1	$z_1 = a + y_d$	0,48		0,92
2	$z_2 = a$	0,16	maka,	0,80
3	$z_3 = a$	0,16		0,48
4	$z_4 = a$	0,16		0,16



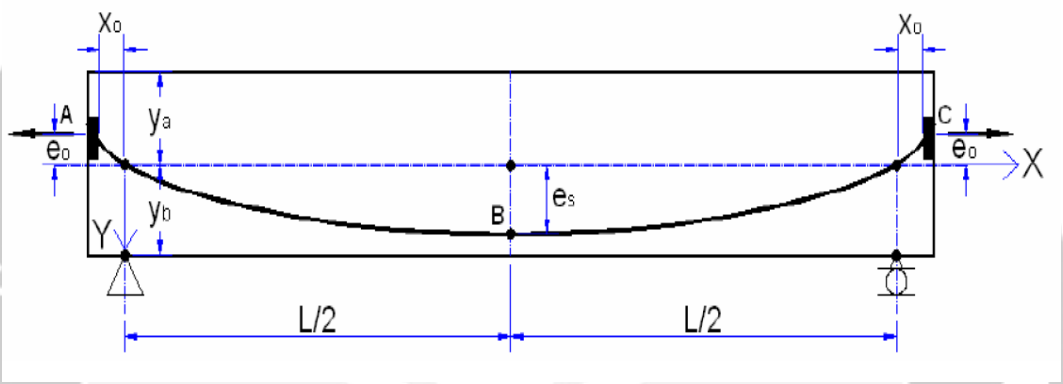
Gambar 5.16 Posisi Tendon Pada Tengah Bentang

5.7.5 Lintasan Tendon (Cable)

Panjang balok, L = 30 m

Eksentrisitas, e_s = 0,74 m dari tengah titik berat tendon

Persamaan lintasan tendon : $Y = 4 * f * X / L^2 * (L - X)$ dengan, $f = e_s$



Gambar 5.16 Posisi Lintasan Tendon

Tabel 5.9 Lintasan Inti Tendon Cable

X	Z	X	Z	X	Z
(m)	(m)	(m)	(m)	(m)	(m)
-0,25	-0,03	10,00	0,16	21,00	0,14
0,00	0,00	11,00	0,19	22,00	0,12
1,00	0,01	12,00	0,22	23,00	0,10
2,00	0,02	13,00	0,25	24,00	0,08
3,00	0,04	14,00	0,29	25,00	0,07
4,00	0,05	15,00	0,33	26,00	0,05
5,00	0,07	16,00	0,29	27,00	0,04
6,00	0,08	17,00	0,25	28,00	0,02
7,00	0,10	18,00	0,22	29,00	0,01
8,00	0,12	19,00	0,19	30,00	0,00
9,00	0,14	20,00	0,16	0,25	0,03

maka,

x_o = 0,25 m

e_o = 0,215 m

$L/2 + x_o$ = 15,25 m

$e_s + e_o$ = 0,95 m

$^{\alpha} AB = 2*(e_s + e_o)/(L/2 + x_o)$ =	0,12459
$^{\alpha} BC = 2*(e_s + e_o)/(L/2 + x_o)$ =	0,12459

BAB VI

KESIMPULAN DAN SARAN

6.1. Kesimpulan

Berdasarkan hasil perancangan struktur atas Jembatan Tukad Keladian yang telah dilakukan, penyusun dapat menarik kesimpulan-kesimpulan sebagai berikut :

1. Balok mengunakan beton prategang balok T , sehingga lantai jembatan langsung di balok T dengan dimensi balok lebar 1,7 m tinggi 1,8 m.
2. Pada pelat trotoar menggunakan tulangan pokok D 16 – 150 mm, tulangan susut D 13 – 150 mm.
3. Digunakan 4 tendon dan jumlah total strand 40 standar VSL , jenis strands adalah *Uncoated 7 wire super strands ASTM A-416 grade 270*. Diameter starands 12,7 mm dan luas 100 mm.
4. Penulangan pada tiang railing menggunaka besi tulangan 2 D 13 dengan tulangan geser digunakan 2 P 6 – 115 mm.
5. Perencanaan 8 segmen dengan 5 (lima) balok T girder/segmen dengan panjang 1 girder 6 m, lebar 1,7 m, dan tinggi 1,8 m. Penulangan pada balok girder digunakan 32 D 13 untuk tulangan arah memanjang balok, sengkang 2 D 13 – 100 pada segmen 1, 2, 3, 6, 7, 8 pada segmen digunakan sengkang D 13 – 150 mm pada segmen 4, 5. Untuk setiap pertemuan antar segmen digunakan D 16 – 150 mm sepanjang 15 cm.

6. Untuk jumlah tendon digunakan 4 lubang tendong dengan jarak antara tendon 0,35 m , Jarak bersih vertikal antara selubung tendon 0,244 m dan jumlah cable prategang yang di pakai 69 buah. Gaya prategang awal 8677,56 KN dan Gaya prategang akhir 7146,23 KN.

6.2. Saran

Saran-saran sebagai berikut.

1. Sesuai perancangan beton dengan prategang di jalan tukad keladian , di perlukan kecermatan dalam menganalisis elemen struktur agar tidak terjadi perhitungan yang berulang – ulang.
2. Perancangan harus di lakukan pada masing – masing bagian struktur jembatan, untuk mempermudah dalam proses menganalisa.

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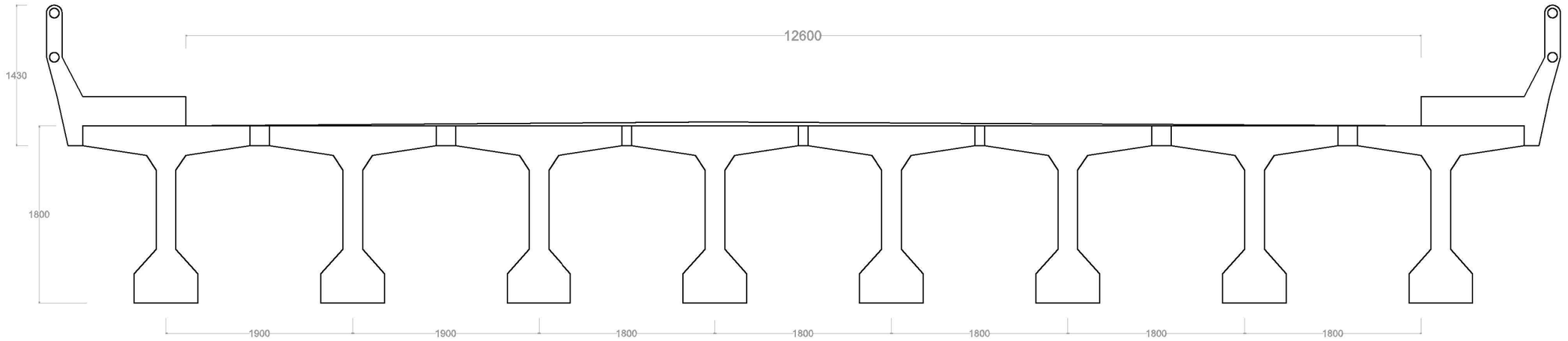
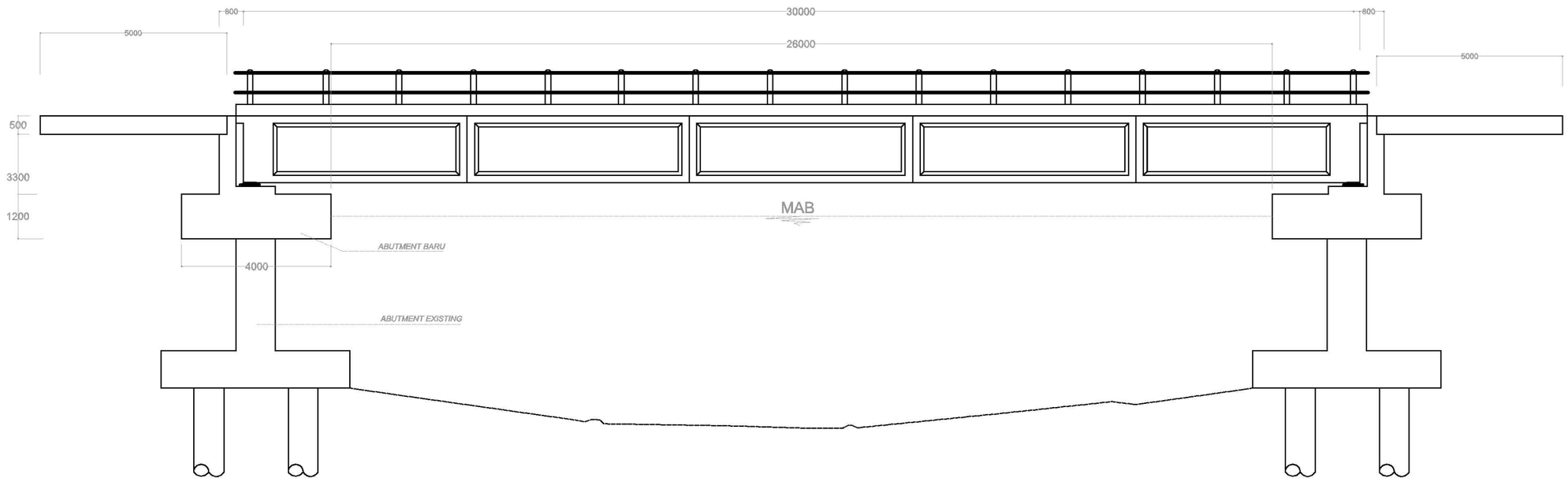


TAMPAK DEPAN
SKALA 1 : 25

	FAKULTAS TEKNIK **JURUSAN TENIK SIPIL** **UNIVERSITAS ATMA JAYA** **YOGYAKARTA**	**TUGAS AKHIR**	**DOSEN PEMBIMBING**	**DIGAMBAR OLEH**	**NAMA GAMBAR**
		PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI.	**FX.PRANOTO DIRHAN PUTRA,S.T.,MURP**	**WILLIAM CHRISTOPHER SAIRO** **130214898**	**TAMPAK DEPAN**



TAMPAK SAMPING
SKALA 1 : 25

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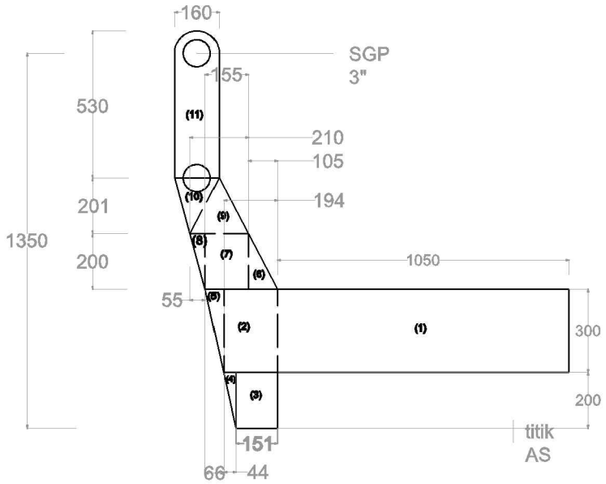
		PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI.	FX.PRANOTO DIRHAN PUTRA,S.T.,MURP	WILLIAM CHRISTOPHER SAIRO 130214898	TAMPAK SAMPING



PENAMPANG MELINTANG TROTOAR

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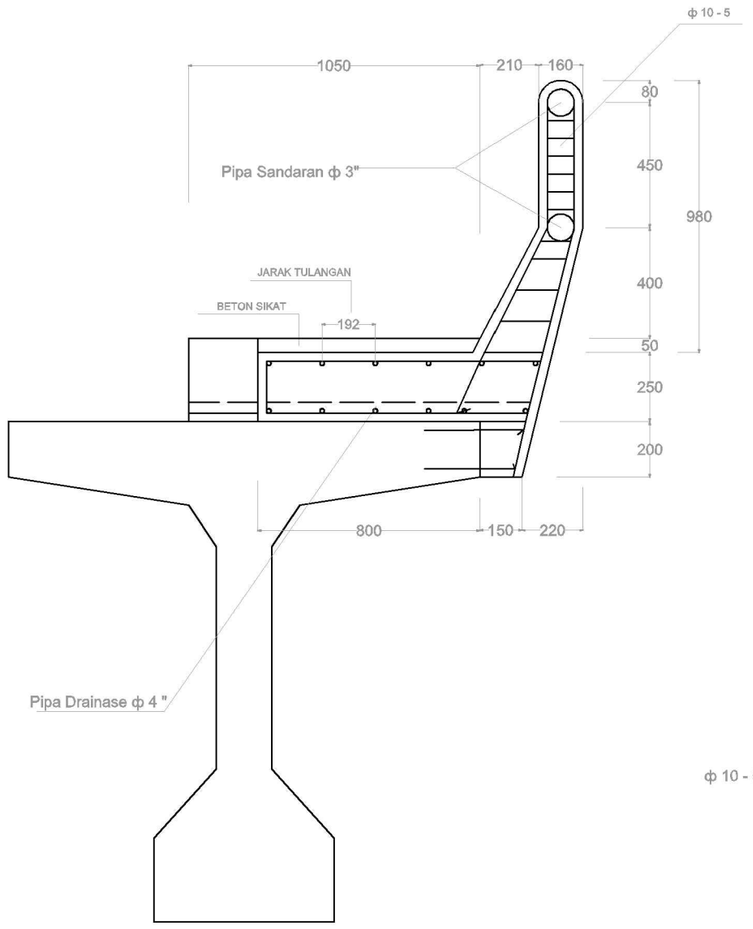

DETAIL TROTOAR

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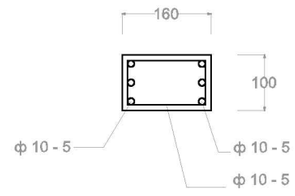
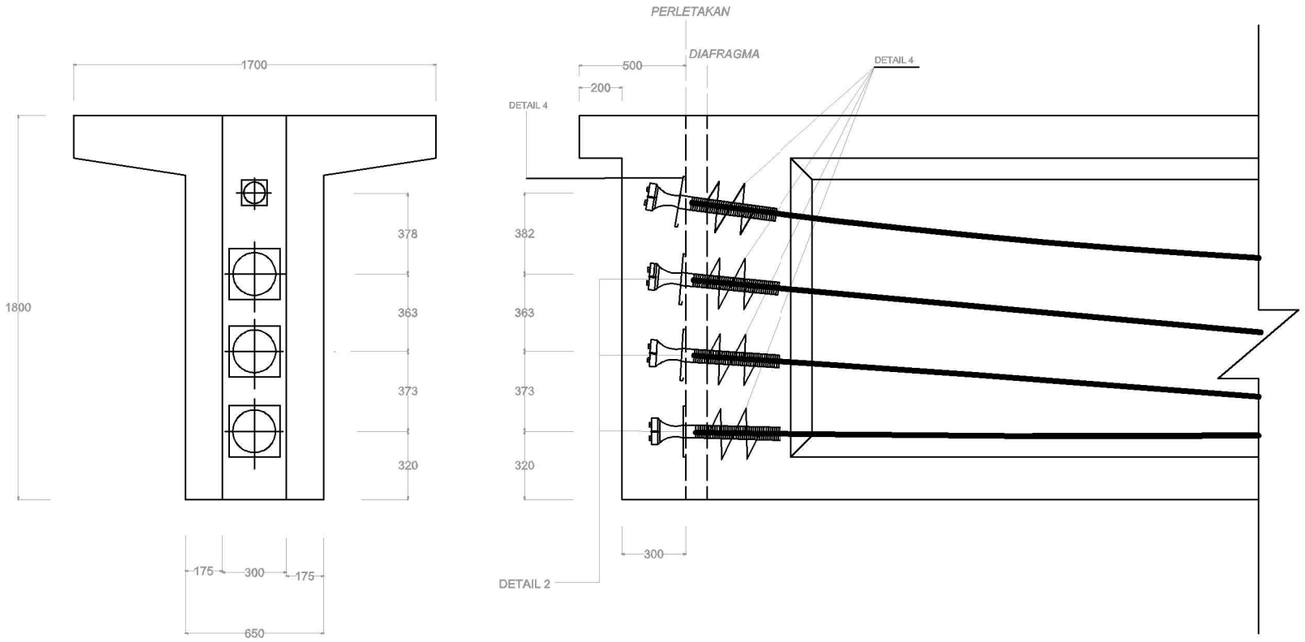


POTONGAN 1

SKALA 1 : 5

	FAKULTAS TEKNIK JURUSAN TENIK SIPIL UNIVERSITAS ATMA JAYA YOGYAKARTA	TUGAS AKHIR	DOSEN PEMBIMBING	DIGAMBAR OLEH	NAMA GAMBAR
		PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI	FX.PRANOTO DIRHAN PUTRA,S.T.,MURP	WILLIAM CHRISTOPHER SAIRO 130214898	DETAIL TROTOAR



POTONGAN A - A
SKALA 1 : 25

DETAIL BAJA PRATEGANG
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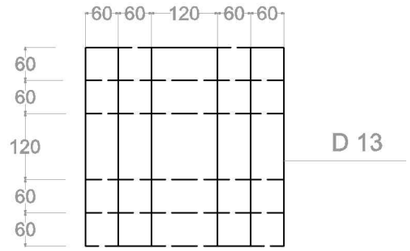
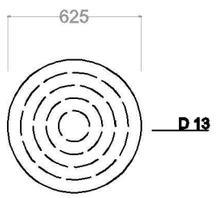


DETAIL - 2
SKALA 1 : 20



DETAIL - 4
SKALA 1 : 10

DETAIL - 3
SKALA 1 : 20

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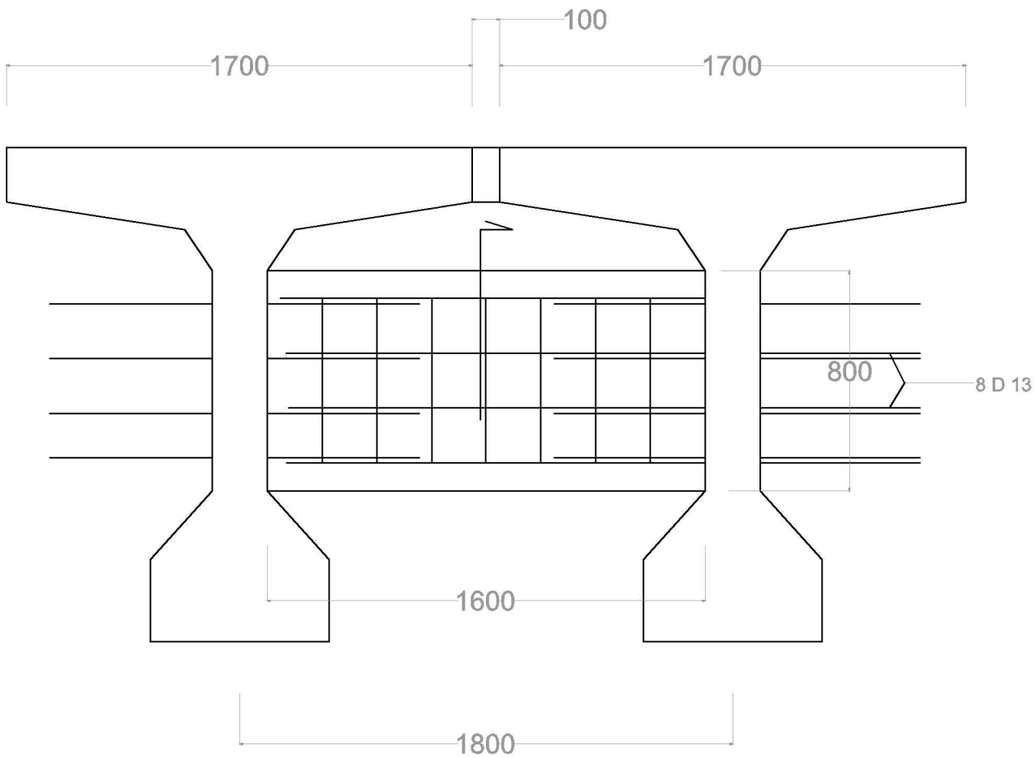

DETAIL DIAFRAGMA

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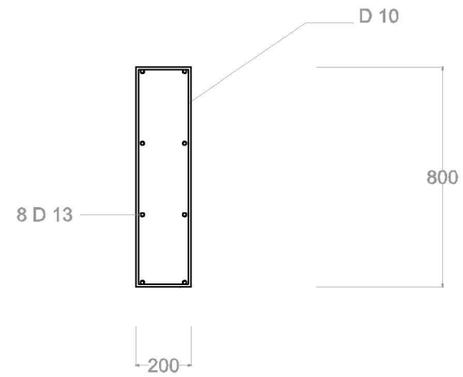
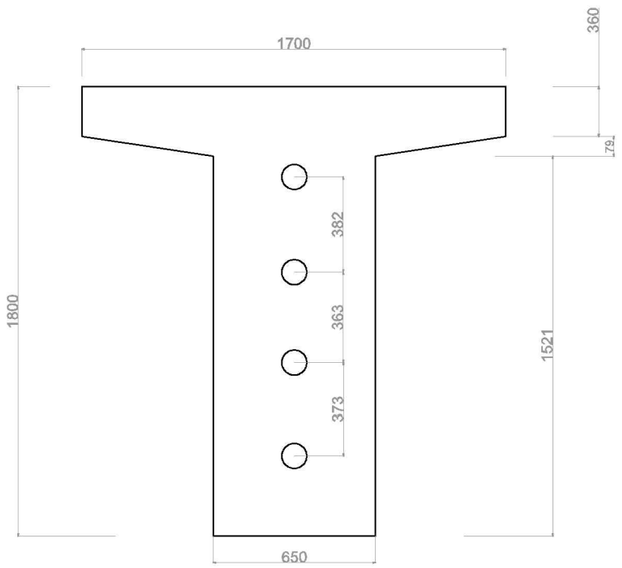


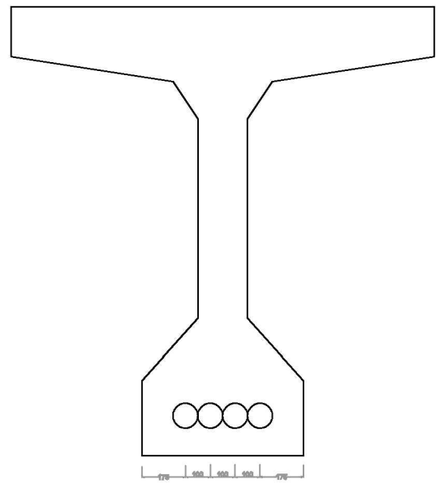
DETAIL POTONGAN - 1

SKALA 1 : 25

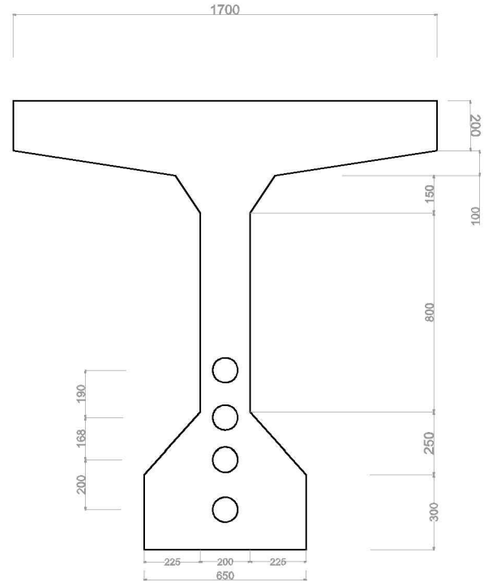
		TUGAS AKHIR	DOSEN PEMBIMBING	DIGAMBAR OLEH	NAMA GAMBAR
	FAKULTAS TEKNIK JURUSAN TENIK SIPIL UNIVERSITAS ATMA JAYA YOGYAKARTA	PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI.	FX.PRANOTO DIRHAN PUTRA,S.T.,MURP	WILLIAM CHRISTOPHER SAIRO 130214898	DETAIL DIAFRAGMA



SEGMEN 1 DAN 5



SEGMEN 3



SEGMEN 2 DAN 4

DETAIL SEGMENTAL

SKALA 1 : 25

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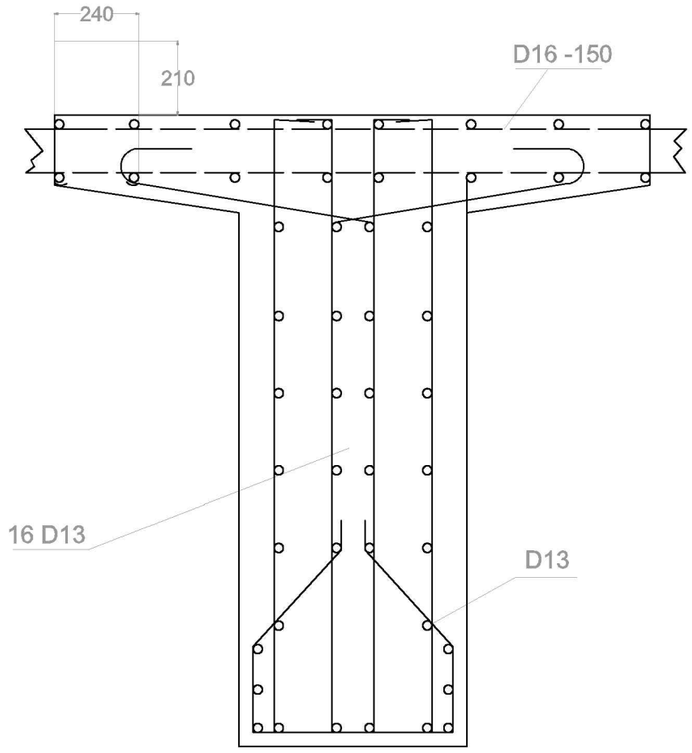

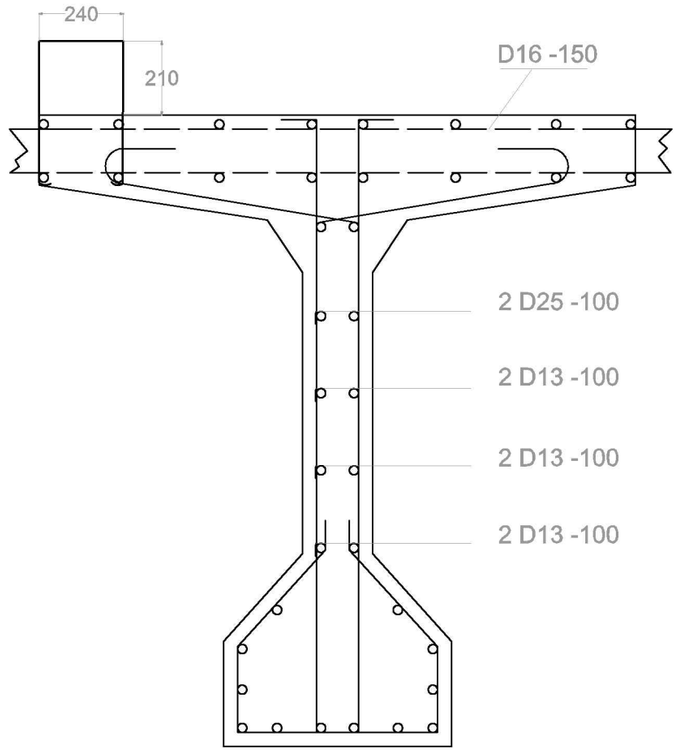

DETAIL TULANGAN BETON PRECAST

SKALA 1 : 25

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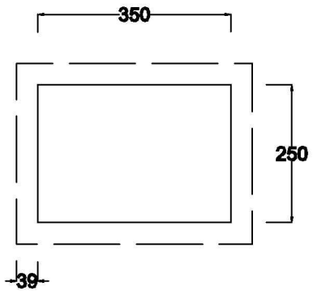
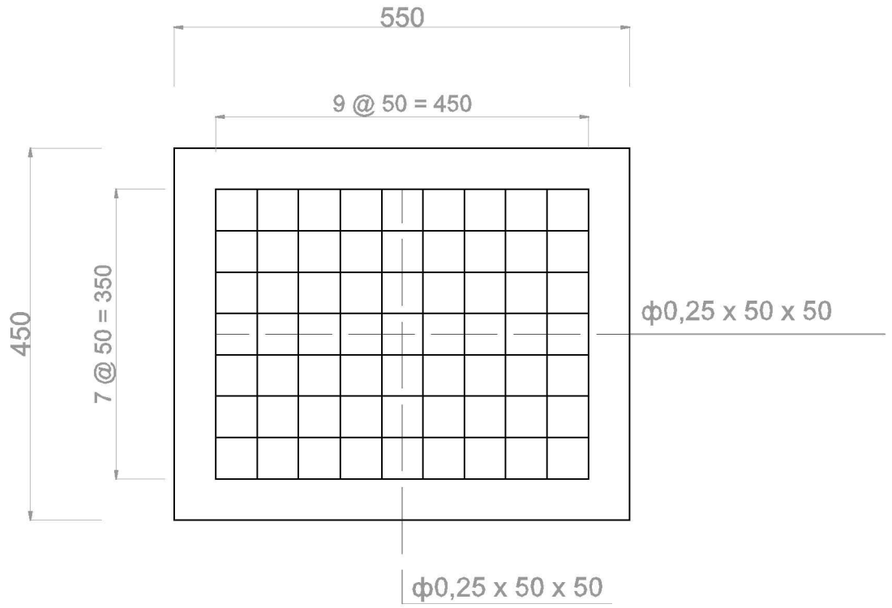
		PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI	FX.PRANOTO DIRHAN PUTRA,S.T.,MURP	WILLIAM CHRISTOPHER SAIRO 130214898	DETAIL TULANGAN BETON PRECAST



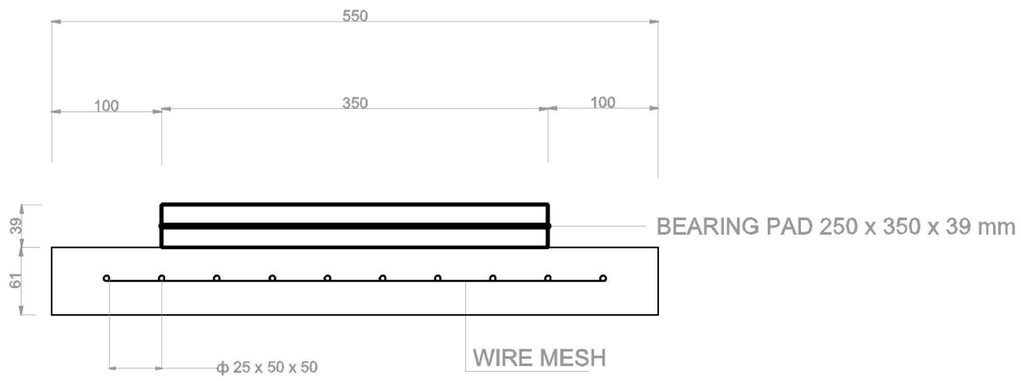
BEARING PAD 250 x 350 x 39 mm

SKALA 1 : 10



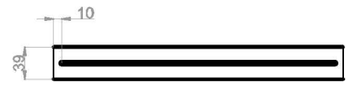
DETAIL WIRE MESH UNTK LEVELIN MORTAR > 10 CM

SKALA 1 : 20



POTONGAN - A

SKALA 1 : 20



POTONGAN - B

SKALA 1 : 20

	FAKULTAS TEKNIK JURUSAN TENIK SIPIL UNIVERSITAS ATMA JAYA YOGYAKARTA	TUGAS AKHIR	DOSEN PEMBIMBING	DIGAMBAR OLEH	NAMA GAMBAR
		PERANCANGAN JEMBATAN TUKAD KELADIAN , BALI	FX.PRANOTO DIRHAN PUTRA,S.T.,MURP	WILLIAM CHRISTOPHER SAIRO 130214898	BEARING PAD DETAIL WIRE MESH

TABLE: Base Reactions								
OutputCase	CaseType	GlobalFX	GlobalFY	GlobalFZ	GlobalMX	GlobalMY	GlobalMZ	GlobalX
Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	m
COMB1	Combination	0	0	26825,1	168997,94	-402376,05	0	0
COMB2	Combination	0	0	30672,9	193239,38	-460093,76	0	0
COMB3	Combination	3,411E-13	0	22992,9	144855,38	-344893,76	-2,274E-12	0
COMB4	Combination	3,411E-13	0	30672,9	193239,38	-460093,76	-2,274E-12	0
COMB5	Combination	0	-77,84	42920,6	270399,74	-643808,91	0	0
COMB6	Combination	3,411E-13	-77,84	42920,6	270399,74	-643808,91	-2,274E-12	0

TABLE: Base Reactions							
GlobalY	GlobalZ	XCentroidFX	YCentroidFX	ZCentroidFX	XCentroidFY	YCentroidFY	ZCentroidFY
m	m	m	m	m	m	m	m
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	6,6667	0	0	0	0
0	0	0	6,6667	0	0	0	0
0	0	0	0	0	0	12,6	0
0	0	0	6,6667	0	0	12,6	0

TABLE: Base Reactions		
XCentroidFZ	YCentroidFZ	ZCentroidFZ
m	m	m
42	17,64	0
60	25,2	0
36	17,58154	0
60	27,66154	0
129	54,18	0
129	56,64154	0

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	1-1	0
1	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	1-1	0,5
1	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	1-1	1
1	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	1-1	1,5
1	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	1-1	2
1	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	1-1	2,5
1	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	1-1	3
1	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	1-1	3,5
1	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	1-1	4
1	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	1-1	4,5
1	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	1-1	5
1	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	1-1	5,5
1	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	1-1	6
1	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	1-1	6,5
1	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	1-1	7
1	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	1-1	7,5
1	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	1-1	8
1	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	1-1	8,5
1	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	1-1	9
1	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	1-1	9,5
1	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	1-1	10
1	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	1-1	10,5
1	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	1-1	11
1	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	1-1	11,5
1	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	1-1	12
1	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	1-1	12,5
1	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	1-1	13
1	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	1-1	13,5
1	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	1-1	14
1	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	1-1	14,5
1	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	1-1	15
1	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	1-1	15
1	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	1-1	15,5
1	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	1-1	16
1	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	1-1	16,5
1	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	1-1	17
1	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	1-1	17,5
1	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	1-1	18
1	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	1-1	18,5
1	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	1-1	19
1	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	1-1	19,5
1	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	1-1	20
1	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	1-1	20,5
1	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	1-1	21
1	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	1-1	21,5
1	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	1-1	22
1	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	1-1	22,5
1	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	1-1	23
1	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	1-1	23,5
1	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	1-1	24
1	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	1-1	24,5
1	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	1-1	25
1	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	1-1	25,5
1	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	1-1	26
1	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	1-1	26,5
1	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	1-1	27
1	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	1-1	27,5
1	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	1-1	28
1	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	1-1	28,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	1-1	29
1	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	1-1	29,5
1	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	1-1	30
1	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	1-1	0
1	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	1-1	0,5
1	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	1-1	1
1	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	1-1	1,5
1	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	1-1	2
1	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	1-1	2,5
1	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	1-1	3
1	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	1-1	3,5
1	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	1-1	4
1	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	1-1	4,5
1	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	1-1	5
1	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	1-1	5,5
1	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	1-1	6
1	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	1-1	6,5
1	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	1-1	7
1	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	1-1	7,5
1	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	1-1	8
1	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	1-1	8,5
1	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	1-1	9
1	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	1-1	9,5
1	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	1-1	10
1	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	1-1	10,5
1	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	1-1	11
1	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	1-1	11,5
1	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	1-1	12
1	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	1-1	12,5
1	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	1-1	13
1	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	1-1	13,5
1	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	1-1	14
1	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	1-1	14,5
1	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	1-1	15
1	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	1-1	15
1	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	1-1	15,5
1	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	1-1	16
1	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	1-1	16,5
1	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	1-1	17
1	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	1-1	17,5
1	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	1-1	18
1	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	1-1	18,5
1	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	1-1	19
1	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	1-1	19,5
1	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	1-1	20
1	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	1-1	20,5
1	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	1-1	21
1	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	1-1	21,5
1	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	1-1	22
1	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	1-1	22,5
1	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	1-1	23
1	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	1-1	23,5
1	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	1-1	24
1	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	1-1	24,5
1	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	1-1	25
1	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	1-1	25,5
1	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	1-1	26
1	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	1-1	26,5
1	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	1-1	27

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	1-1	27,5
1	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	1-1	28
1	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	1-1	28,5
1	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	1-1	29
1	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	1-1	29,5
1	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	1-1	30
1	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	1-1	0
1	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	1-1	0,5
1	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	1-1	1
1	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	1-1	1,5
1	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	1-1	2
1	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	1-1	2,5
1	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	1-1	3
1	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	1-1	3,5
1	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	1-1	4
1	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	1-1	4,5
1	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	1-1	5
1	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	1-1	5,5
1	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	1-1	6
1	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	1-1	6,5
1	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	1-1	7
1	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	1-1	7,5
1	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	1-1	8
1	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	1-1	8,5
1	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	1-1	9
1	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	1-1	9,5
1	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	1-1	10
1	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	1-1	10,5
1	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	1-1	11
1	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	1-1	11,5
1	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	1-1	12
1	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	1-1	12,5
1	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	1-1	13
1	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	1-1	13,5
1	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	1-1	14
1	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	1-1	14,5
1	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	1-1	15
1	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	1-1	15
1	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	1-1	15,5
1	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	1-1	16
1	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	1-1	16,5
1	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	1-1	17
1	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	1-1	17,5
1	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	1-1	18
1	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	1-1	18,5
1	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	1-1	19
1	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	1-1	19,5
1	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	1-1	20
1	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	1-1	20,5
1	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	1-1	21
1	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	1-1	21,5
1	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	1-1	22
1	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	1-1	22,5
1	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	1-1	23
1	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	1-1	23,5
1	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	1-1	24
1	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	1-1	24,5
1	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	1-1	25
1	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	1-1	25,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	1-1	26
1	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	1-1	26,5
1	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	1-1	27
1	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	1-1	27,5
1	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	1-1	28
1	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	1-1	28,5
1	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	1-1	29
1	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	1-1	29,5
1	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	1-1	30
1	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	1-1	0
1	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	1-1	0,5
1	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	1-1	1
1	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	1-1	1,5
1	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	1-1	2
1	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	1-1	2,5
1	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	1-1	3
1	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	1-1	3,5
1	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	1-1	4
1	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	1-1	4,5
1	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	1-1	5
1	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	1-1	5,5
1	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	1-1	6
1	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	1-1	6,5
1	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	1-1	7
1	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	1-1	7,5
1	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	1-1	8
1	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	1-1	8,5
1	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	1-1	9
1	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	1-1	9,5
1	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	1-1	10
1	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	1-1	10,5
1	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	1-1	11
1	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	1-1	11,5
1	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	1-1	12
1	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	1-1	12,5
1	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	1-1	13
1	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	1-1	13,5
1	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	1-1	14
1	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	1-1	14,5
1	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	1-1	15
1	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	1-1	15
1	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	1-1	15,5
1	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	1-1	16
1	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	1-1	16,5
1	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	1-1	17
1	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	1-1	17,5
1	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	1-1	18
1	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	1-1	18,5
1	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	1-1	19
1	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	1-1	19,5
1	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	1-1	20
1	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	1-1	20,5
1	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	1-1	21
1	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	1-1	21,5
1	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	1-1	22
1	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	1-1	22,5
1	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	1-1	23
1	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	1-1	23,5
1	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	1-1	24

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	1-1	24,5
1	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	1-1	25
1	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	1-1	25,5
1	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	1-1	26
1	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	1-1	26,5
1	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	1-1	27
1	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	1-1	27,5
1	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	1-1	28
1	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	1-1	28,5
1	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	1-1	29
1	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	1-1	29,5
1	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	1-1	30
1	0	COMB5	Combination	0	-2844,762	-21,061	0	-28,46	-2,728E-13	1-1	0
1	0,5	COMB5	Combination	0	-2751,785	-21,061	0	-25,518	1399,1367	1-1	0,5
1	1	COMB5	Combination	0	-2658,807	-21,061	0	-22,576	2751,7847	1-1	1
1	1,5	COMB5	Combination	0	-2565,83	-21,061	0	-19,634	4057,944	1-1	1,5
1	2	COMB5	Combination	0	-2472,853	-21,061	0	-16,691	5317,6146	1-1	2
1	2,5	COMB5	Combination	0	-2379,875	-21,061	0	-13,749	6530,7965	1-1	2,5
1	3	COMB5	Combination	0	-2286,898	-21,061	0	-10,807	7697,4898	1-1	3
1	3,5	COMB5	Combination	0	-2193,92	-21,061	0	-7,8647	8817,6943	1-1	3,5
1	4	COMB5	Combination	0	-2100,943	-21,061	0	-4,9225	9891,4101	1-1	4
1	4,5	COMB5	Combination	0	-2007,965	-21,061	0	-1,9803	10918,6371	1-1	4,5
1	5	COMB5	Combination	0	-1914,988	-21,061	0	0,9619	11899,3755	1-1	5
1	5,5	COMB5	Combination	0	-1822,011	-21,061	0	3,9041	12833,6252	1-1	5,5
1	6	COMB5	Combination	0	-1729,033	-21,061	0	6,8463	13721,3862	1-1	6
1	6,5	COMB5	Combination	0	-1636,056	-21,061	0	9,7885	14562,6585	1-1	6,5
1	7	COMB5	Combination	0	-1543,078	-21,061	0	12,7307	15357,4421	1-1	7
1	7,5	COMB5	Combination	0	-1450,101	-21,061	0	15,6729	16105,737	1-1	7,5
1	8	COMB5	Combination	0	-1357,124	-21,061	0	18,6151	16807,5432	1-1	8
1	8,5	COMB5	Combination	0	-1264,146	-21,061	0	21,5573	17462,8606	1-1	8,5
1	9	COMB5	Combination	0	-1171,169	-21,061	0	24,4995	18071,6894	1-1	9
1	9,5	COMB5	Combination	0	-1078,191	-21,061	0	27,4417	18634,0295	1-1	9,5
1	10	COMB5	Combination	0	-985,214	-21,061	0	30,384	19149,8809	1-1	10
1	10,5	COMB5	Combination	0	-892,237	-21,061	0	33,3262	19619,2435	1-1	10,5
1	11	COMB5	Combination	0	-799,259	-21,061	0	36,2684	20042,1175	1-1	11
1	11,5	COMB5	Combination	0	-706,282	-21,061	0	39,2106	20418,5028	1-1	11,5
1	12	COMB5	Combination	0	-613,304	-21,061	0	42,1528	20748,3993	1-1	12
1	12,5	COMB5	Combination	0	-520,327	-21,061	0	45,095	21031,8072	1-1	12,5
1	13	COMB5	Combination	0	-427,35	-21,061	0	48,0372	21268,7264	1-1	13
1	13,5	COMB5	Combination	0	-334,372	-21,061	0	50,9794	21459,1568	1-1	13,5
1	14	COMB5	Combination	0	-241,395	-21,061	0	53,9216	21603,0986	1-1	14
1	14,5	COMB5	Combination	0	-148,417	-21,061	0	56,8638	21700,5516	1-1	14,5
1	15	COMB5	Combination	0	-55,44	-21,061	0	59,806	21751,516	1-1	15
1	15	COMB5	Combination	0	55,44	-21,061	0	-59,806	21751,516	1-1	15
1	15,5	COMB5	Combination	0	148,417	-21,061	0	-56,864	21700,5516	1-1	15,5
1	16	COMB5	Combination	0	241,395	-21,061	0	-53,922	21603,0986	1-1	16
1	16,5	COMB5	Combination	0	334,372	-21,061	0	-50,979	21459,1568	1-1	16,5
1	17	COMB5	Combination	0	427,35	-21,061	0	-48,037	21268,7264	1-1	17
1	17,5	COMB5	Combination	0	520,327	-21,061	0	-45,095	21031,8072	1-1	17,5
1	18	COMB5	Combination	0	613,304	-21,061	0	-42,153	20748,3993	1-1	18
1	18,5	COMB5	Combination	0	706,282	-21,061	0	-39,211	20418,5028	1-1	18,5
1	19	COMB5	Combination	0	799,259	-21,061	0	-36,268	20042,1175	1-1	19
1	19,5	COMB5	Combination	0	892,237	-21,061	0	-33,326	19619,2435	1-1	19,5
1	20	COMB5	Combination	0	985,214	-21,061	0	-30,384	19149,8809	1-1	20
1	20,5	COMB5	Combination	0	1078,191	-21,061	0	-27,442	18634,0295	1-1	20,5
1	21	COMB5	Combination	0	1171,169	-21,061	0	-24,5	18071,6894	1-1	21
1	21,5	COMB5	Combination	0	1264,146	-21,061	0	-21,557	17462,8606	1-1	21,5
1	22	COMB5	Combination	0	1357,124	-21,061	0	-18,615	16807,5432	1-1	22
1	22,5	COMB5	Combination	0	1450,101	-21,061	0	-15,673	16105,737	1-1	22,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	23	COMB5	Combination	0	1543,078	-21,061	0	-12,731	15357,4421	1-1	23
1	23,5	COMB5	Combination	0	1636,056	-21,061	0	-9,7885	14562,6585	1-1	23,5
1	24	COMB5	Combination	0	1729,033	-21,061	0	-6,8463	13721,3862	1-1	24
1	24,5	COMB5	Combination	0	1822,011	-21,061	0	-3,9041	12833,6252	1-1	24,5
1	25	COMB5	Combination	0	1914,988	-21,061	0	-0,9619	11899,3755	1-1	25
1	25,5	COMB5	Combination	0	2007,965	-21,061	0	1,9803	10918,6371	1-1	25,5
1	26	COMB5	Combination	0	2100,943	-21,061	0	4,9225	9891,4101	1-1	26
1	26,5	COMB5	Combination	0	2193,92	-21,061	0	7,8647	8817,6943	1-1	26,5
1	27	COMB5	Combination	0	2286,898	-21,061	0	10,8069	7697,4898	1-1	27
1	27,5	COMB5	Combination	0	2379,875	-21,061	0	13,7491	6530,7965	1-1	27,5
1	28	COMB5	Combination	0	2472,853	-21,061	0	16,6913	5317,6146	1-1	28
1	28,5	COMB5	Combination	0	2565,83	-21,061	0	19,6335	4057,944	1-1	28,5
1	29	COMB5	Combination	0	2658,807	-21,061	0	22,5757	2751,7847	1-1	29
1	29,5	COMB5	Combination	0	2751,785	-21,061	0	25,5179	1399,1367	1-1	29,5
1	30	COMB5	Combination	0	2844,762	-21,061	0	28,4601	2,489E-11	1-1	30
1	0	COMB6	Combination	-314,3	-2800,158	-21,061	0	-28,46	27,9969	1-1	0
1	0,5	COMB6	Combination	-315,5	-2708,517	-21,061	0	-25,518	1405,2474	1-1	0,5
1	1	COMB6	Combination	-316,6	-2616,876	-21,061	0	-22,576	2736,598	1-1	1
1	1,5	COMB6	Combination	-317,8	-2525,236	-21,061	0	-19,634	4022,0488	1-1	1,5
1	2	COMB6	Combination	-318,8	-2433,646	-21,061	0	-16,691	5261,6352	1-1	2
1	2,5	COMB6	Combination	-319,8	-2342,056	-21,061	0	-13,749	6455,365	1-1	2,5
1	3	COMB6	Combination	-320,8	-2250,466	-21,061	0	-10,807	7603,2382	1-1	3
1	3,5	COMB6	Combination	-321,8	-2158,907	-21,061	0	-7,8647	8705,2699	1-1	3,5
1	4	COMB6	Combination	-322,8	-2067,347	-21,061	0	-4,9225	9761,4682	1-1	4
1	4,5	COMB6	Combination	-323,8	-1975,788	-21,061	0	-1,9803	10771,8332	1-1	4,5
1	5	COMB6	Combination	-324,8	-1884,258	-21,061	0	0,9619	11736,3821	1-1	5
1	5,5	COMB6	Combination	-325,8	-1792,728	-21,061	0	3,9041	12655,1203	1-1	5,5
1	6	COMB6	Combination	-326,8	-1701,199	-21,061	0	6,8463	13528,048	1-1	6
1	6,5	COMB6	Combination	-327,8	-1609,698	-21,061	0	9,7885	14355,1841	1-1	6,5
1	7	COMB6	Combination	-328,7	-1518,198	-21,061	0	12,7307	15136,5318	1-1	7
1	7,5	COMB6	Combination	-329,7	-1426,697	-21,061	0	15,6729	15872,0912	1-1	7,5
1	8	COMB6	Combination	-330,7	-1335,225	-21,061	0	18,6151	16561,8837	1-1	8
1	8,5	COMB6	Combination	-331,6	-1243,754	-21,061	0	21,5573	17205,9096	1-1	8,5
1	9	COMB6	Combination	-332,6	-1152,282	-21,061	0	24,4995	17804,169	1-1	9
1	9,5	COMB6	Combination	-333,5	-1060,838	-21,061	0	27,4417	18356,6841	1-1	9,5
1	10	COMB6	Combination	-334,5	-969,394	-21,061	0	30,384	18863,4538	1-1	10
1	10,5	COMB6	Combination	-335,4	-877,951	-21,061	0	33,3262	19324,4781	1-1	10,5
1	11	COMB6	Combination	-336,3	-786,534	-21,061	0	36,2684	19739,7808	1-1	11
1	11,5	COMB6	Combination	-337,2	-695,117	-21,061	0	39,2106	20109,3587	1-1	11,5
1	12	COMB6	Combination	-338,2	-603,701	-21,061	0	42,1528	20433,2135	1-1	12
1	12,5	COMB6	Combination	-338,9	-512,314	-21,061	0	45,095	20711,5004	1-1	12,5
1	13	COMB6	Combination	-339,7	-420,926	-21,061	0	48,0372	20944,0856	1-1	13
1	13,5	COMB6	Combination	-340,4	-329,539	-21,061	0	50,9794	21130,9778	1-1	13,5
1	14	COMB6	Combination	-339,7	-238,173	-21,061	0	53,9216	21273,6157	1-1	14
1	14,5	COMB6	Combination	-338,9	-146,806	-21,061	0	56,8638	21370,5732	1-1	14,5
1	15	COMB6	Combination	-338,2	-55,44	-21,061	0	59,806	21421,8504	1-1	15
1	15	COMB6	Combination	-338,2	55,44	-21,061	0	-59,806	21421,8504	1-1	15
1	15,5	COMB6	Combination	-338,9	146,806	-21,061	0	-56,864	21370,5732	1-1	15,5
1	16	COMB6	Combination	-339,7	238,173	-21,061	0	-53,922	21273,6157	1-1	16
1	16,5	COMB6	Combination	-340,4	329,539	-21,061	0	-50,979	21130,9778	1-1	16,5
1	17	COMB6	Combination	-339,7	420,926	-21,061	0	-48,037	20944,0856	1-1	17
1	17,5	COMB6	Combination	-338,9	512,314	-21,061	0	-45,095	20711,5004	1-1	17,5
1	18	COMB6	Combination	-338,2	603,701	-21,061	0	-42,153	20433,2135	1-1	18
1	18,5	COMB6	Combination	-337,2	695,117	-21,061	0	-39,211	20109,3587	1-1	18,5
1	19	COMB6	Combination	-336,3	786,534	-21,061	0	-36,268	19739,7808	1-1	19
1	19,5	COMB6	Combination	-335,4	877,951	-21,061	0	-33,326	19324,4781	1-1	19,5
1	20	COMB6	Combination	-334,5	969,394	-21,061	0	-30,384	18863,4538	1-1	20
1	20,5	COMB6	Combination	-333,5	1060,838	-21,061	0	-27,442	18356,6841	1-1	20,5
1	21	COMB6	Combination	-332,6	1152,282	-21,061	0	-24,5	17804,169	1-1	21

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	21,5	COMB6	Combination	-331,6	1243,754	-21,061	0	-21,557	17205,9096	1-1	21,5
1	22	COMB6	Combination	-330,7	1335,225	-21,061	0	-18,615	16561,8837	1-1	22
1	22,5	COMB6	Combination	-329,7	1426,697	-21,061	0	-15,673	15872,0912	1-1	22,5
1	23	COMB6	Combination	-328,7	1518,198	-21,061	0	-12,731	15136,5318	1-1	23
1	23,5	COMB6	Combination	-327,8	1609,698	-21,061	0	-9,7885	14355,1841	1-1	23,5
1	24	COMB6	Combination	-326,8	1701,199	-21,061	0	-6,8463	13528,048	1-1	24
1	24,5	COMB6	Combination	-325,8	1792,728	-21,061	0	-3,9041	12655,1203	1-1	24,5
1	25	COMB6	Combination	-324,8	1884,258	-21,061	0	-0,9619	11736,3821	1-1	25
1	25,5	COMB6	Combination	-323,8	1975,788	-21,061	0	1,9803	10771,8332	1-1	25,5
1	26	COMB6	Combination	-322,8	2067,347	-21,061	0	4,9225	9761,4682	1-1	26
1	26,5	COMB6	Combination	-321,8	2158,907	-21,061	0	7,8647	8705,2699	1-1	26,5
1	27	COMB6	Combination	-320,8	2250,466	-21,061	0	10,8069	7603,2382	1-1	27
1	27,5	COMB6	Combination	-319,8	2342,056	-21,061	0	13,7491	6455,365	1-1	27,5
1	28	COMB6	Combination	-318,8	2433,646	-21,061	0	16,6913	5261,6352	1-1	28
1	28,5	COMB6	Combination	-317,8	2525,236	-21,061	0	19,6335	4022,0488	1-1	28,5
1	29	COMB6	Combination	-316,6	2616,876	-21,061	0	22,5757	2736,598	1-1	29
1	29,5	COMB6	Combination	-315,5	2708,517	-21,061	0	25,5179	1405,2474	1-1	29,5
1	30	COMB6	Combination	-314,3	2800,158	-21,061	0	28,4601	27,9969	1-1	30
10	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	10-1	0
10	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	10-1	0,5
10	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	10-1	1
10	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	10-1	1,5
10	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	10-1	2
10	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	10-1	2,5
10	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	10-1	3
10	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	10-1	3,5
10	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	10-1	4
10	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	10-1	4,5
10	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	10-1	5
10	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	10-1	5,5
10	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	10-1	6
10	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	10-1	6,5
10	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	10-1	7
10	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	10-1	7,5
10	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	10-1	8
10	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	10-1	8,5
10	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	10-1	9
10	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	10-1	9,5
10	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	10-1	10
10	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	10-1	10,5
10	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	10-1	11
10	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	10-1	11,5
10	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	10-1	12
10	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	10-1	12,5
10	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	10-1	13
10	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	10-1	13,5
10	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	10-1	14
10	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	10-1	14,5
10	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	10-1	15
10	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	10-1	15
10	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	10-1	15,5
10	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	10-1	16
10	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	10-1	16,5
10	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	10-1	17
10	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	10-1	17,5
10	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	10-1	18
10	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	10-1	18,5
10	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	10-1	19
10	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	10-1	19,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	10-1	20
10	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	10-1	20,5
10	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	10-1	21
10	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	10-1	21,5
10	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	10-1	22
10	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	10-1	22,5
10	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	10-1	23
10	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	10-1	23,5
10	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	10-1	24
10	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	10-1	24,5
10	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	10-1	25
10	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	10-1	25,5
10	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	10-1	26
10	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	10-1	26,5
10	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	10-1	27
10	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	10-1	27,5
10	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	10-1	28
10	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	10-1	28,5
10	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	10-1	29
10	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	10-1	29,5
10	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	10-1	30
10	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	10-1	0
10	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	10-1	0,5
10	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	10-1	1
10	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	10-1	1,5
10	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	10-1	2
10	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	10-1	2,5
10	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	10-1	3
10	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	10-1	3,5
10	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	10-1	4
10	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	10-1	4,5
10	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	10-1	5
10	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	10-1	5,5
10	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	10-1	6
10	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	10-1	6,5
10	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	10-1	7
10	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	10-1	7,5
10	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	10-1	8
10	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	10-1	8,5
10	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	10-1	9
10	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	10-1	9,5
10	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	10-1	10
10	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	10-1	10,5
10	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	10-1	11
10	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	10-1	11,5
10	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	10-1	12
10	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	10-1	12,5
10	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	10-1	13
10	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	10-1	13,5
10	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	10-1	14
10	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	10-1	14,5
10	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	10-1	15
10	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	10-1	15
10	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	10-1	15,5
10	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	10-1	16
10	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	10-1	16,5
10	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	10-1	17
10	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	10-1	17,5
10	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	10-1	18

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	10-1	18,5
10	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	10-1	19
10	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	10-1	19,5
10	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	10-1	20
10	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	10-1	20,5
10	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	10-1	21
10	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	10-1	21,5
10	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	10-1	22
10	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	10-1	22,5
10	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	10-1	23
10	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	10-1	23,5
10	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	10-1	24
10	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	10-1	24,5
10	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	10-1	25
10	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	10-1	25,5
10	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	10-1	26
10	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	10-1	26,5
10	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	10-1	27
10	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	10-1	27,5
10	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	10-1	28
10	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	10-1	28,5
10	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	10-1	29
10	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	10-1	29,5
10	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	10-1	30
10	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	10-1	0
10	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	10-1	0,5
10	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	10-1	1
10	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	10-1	1,5
10	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	10-1	2
10	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	10-1	2,5
10	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	10-1	3
10	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	10-1	3,5
10	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	10-1	4
10	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	10-1	4,5
10	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	10-1	5
10	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	10-1	5,5
10	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	10-1	6
10	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	10-1	6,5
10	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	10-1	7
10	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	10-1	7,5
10	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	10-1	8
10	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	10-1	8,5
10	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	10-1	9
10	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	10-1	9,5
10	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	10-1	10
10	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	10-1	10,5
10	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	10-1	11
10	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	10-1	11,5
10	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	10-1	12
10	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	10-1	12,5
10	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	10-1	13
10	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	10-1	13,5
10	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	10-1	14
10	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	10-1	14,5
10	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	10-1	15
10	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	10-1	15
10	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	10-1	15,5
10	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	10-1	16
10	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	10-1	16,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	10-1	17
10	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	10-1	17,5
10	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	10-1	18
10	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	10-1	18,5
10	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	10-1	19
10	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	10-1	19,5
10	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	10-1	20
10	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	10-1	20,5
10	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	10-1	21
10	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	10-1	21,5
10	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	10-1	22
10	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	10-1	22,5
10	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	10-1	23
10	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	10-1	23,5
10	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	10-1	24
10	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	10-1	24,5
10	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	10-1	25
10	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	10-1	25,5
10	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	10-1	26
10	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	10-1	26,5
10	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	10-1	27
10	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	10-1	27,5
10	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	10-1	28
10	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	10-1	28,5
10	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	10-1	29
10	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	10-1	29,5
10	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	10-1	30
10	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	10-1	0
10	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	10-1	0,5
10	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	10-1	1
10	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	10-1	1,5
10	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	10-1	2
10	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	10-1	2,5
10	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	10-1	3
10	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	10-1	3,5
10	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	10-1	4
10	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	10-1	4,5
10	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	10-1	5
10	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	10-1	5,5
10	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	10-1	6
10	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	10-1	6,5
10	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	10-1	7
10	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	10-1	7,5
10	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	10-1	8
10	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	10-1	8,5
10	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	10-1	9
10	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	10-1	9,5
10	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	10-1	10
10	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	10-1	10,5
10	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	10-1	11
10	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	10-1	11,5
10	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	10-1	12
10	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	10-1	12,5
10	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	10-1	13
10	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	10-1	13,5
10	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	10-1	14
10	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	10-1	14,5
10	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	10-1	15
10	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	10-1	15

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	10-1	15,5
10	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	10-1	16
10	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	10-1	16,5
10	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	10-1	17
10	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	10-1	17,5
10	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	10-1	18
10	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	10-1	18,5
10	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	10-1	19
10	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	10-1	19,5
10	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	10-1	20
10	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	10-1	20,5
10	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	10-1	21
10	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	10-1	21,5
10	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	10-1	22
10	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	10-1	22,5
10	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	10-1	23
10	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	10-1	23,5
10	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	10-1	24
10	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	10-1	24,5
10	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	10-1	25
10	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	10-1	25,5
10	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	10-1	26
10	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	10-1	26,5
10	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	10-1	27
10	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	10-1	27,5
10	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	10-1	28
10	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	10-1	28,5
10	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	10-1	29
10	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	10-1	29,5
10	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	10-1	30
10	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	10-1	0
10	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	10-1	0,5
10	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	10-1	1
10	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	10-1	1,5
10	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	10-1	2
10	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	10-1	2,5
10	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	10-1	3
10	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	10-1	3,5
10	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	10-1	4
10	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	10-1	4,5
10	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	10-1	5
10	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	10-1	5,5
10	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	10-1	6
10	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	10-1	6,5
10	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	10-1	7
10	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	10-1	7,5
10	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	10-1	8
10	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	10-1	8,5
10	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	10-1	9
10	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	10-1	9,5
10	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	10-1	10
10	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	10-1	10,5
10	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	10-1	11
10	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	10-1	11,5
10	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	10-1	12
10	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	10-1	12,5
10	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	10-1	13
10	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	10-1	13,5
10	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	10-1	14

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	10-1	14,5
10	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	10-1	15
10	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	10-1	15
10	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	10-1	15,5
10	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	10-1	16
10	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	10-1	16,5
10	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	10-1	17
10	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	10-1	17,5
10	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	10-1	18
10	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	10-1	18,5
10	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	10-1	19
10	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	10-1	19,5
10	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	10-1	20
10	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	10-1	20,5
10	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	10-1	21
10	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	10-1	21,5
10	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	10-1	22
10	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	10-1	22,5
10	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	10-1	23
10	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	10-1	23,5
10	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	10-1	24
10	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	10-1	24,5
10	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	10-1	25
10	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	10-1	25,5
10	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	10-1	26
10	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	10-1	26,5
10	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	10-1	27
10	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	10-1	27,5
10	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	10-1	28
10	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	10-1	28,5
10	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	10-1	29
10	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	10-1	29,5
10	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	10-1	30
10	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	10-1	0
10	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	10-1	0,5
10	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	10-1	1
10	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	10-1	1,5
10	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	10-1	2
10	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	10-1	2,5
10	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	10-1	3
10	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	10-1	3,5
10	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	10-1	4
10	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	10-1	4,5
10	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	10-1	5
10	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	10-1	5,5
10	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	10-1	6
10	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	10-1	6,5
10	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	10-1	7
10	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	10-1	7,5
10	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	10-1	8
10	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	10-1	8,5
10	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	10-1	9
10	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	10-1	9,5
10	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	10-1	10
10	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	10-1	10,5
10	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	10-1	11
10	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	10-1	11,5
10	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	10-1	12
10	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	10-1	12,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	10-1	13
10	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	10-1	13,5
10	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	10-1	14
10	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	10-1	14,5
10	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	10-1	15
10	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	10-1	15
10	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	10-1	15,5
10	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	10-1	16
10	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	10-1	16,5
10	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	10-1	17
10	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	10-1	17,5
10	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	10-1	18
10	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	10-1	18,5
10	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	10-1	19
10	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	10-1	19,5
10	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	10-1	20
10	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	10-1	20,5
10	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	10-1	21
10	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	10-1	21,5
10	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	10-1	22
10	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	10-1	22,5
10	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	10-1	23
10	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	10-1	23,5
10	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	10-1	24
10	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	10-1	24,5
10	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	10-1	25
10	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	10-1	25,5
10	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	10-1	26
10	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	10-1	26,5
10	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	10-1	27
10	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	10-1	27,5
10	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	10-1	28
10	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	10-1	28,5
10	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	10-1	29
10	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	10-1	29,5
10	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	10-1	30
16	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	16-1	0
16	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	16-1	0,5
16	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	16-1	1
16	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	16-1	1,5
16	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	16-1	2
16	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	16-1	2,5
16	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	16-1	3
16	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	16-1	3,5
16	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	16-1	4
16	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	16-1	4,5
16	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	16-1	5
16	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	16-1	5,5
16	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	16-1	6
16	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	16-1	6,5
16	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	16-1	7
16	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	16-1	7,5
16	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	16-1	8
16	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	16-1	8,5
16	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	16-1	9
16	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	16-1	9,5
16	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	16-1	10
16	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	16-1	10,5
16	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	16-1	11

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	16-1	11,5
16	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	16-1	12
16	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	16-1	12,5
16	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	16-1	13
16	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	16-1	13,5
16	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	16-1	14
16	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	16-1	14,5
16	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	16-1	15
16	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	16-1	15
16	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	16-1	15,5
16	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	16-1	16
16	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	16-1	16,5
16	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	16-1	17
16	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	16-1	17,5
16	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	16-1	18
16	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	16-1	18,5
16	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	16-1	19
16	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	16-1	19,5
16	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	16-1	20
16	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	16-1	20,5
16	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	16-1	21
16	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	16-1	21,5
16	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	16-1	22
16	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	16-1	22,5
16	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	16-1	23
16	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	16-1	23,5
16	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	16-1	24
16	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	16-1	24,5
16	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	16-1	25
16	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	16-1	25,5
16	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	16-1	26
16	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	16-1	26,5
16	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	16-1	27
16	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	16-1	27,5
16	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	16-1	28
16	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	16-1	28,5
16	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	16-1	29
16	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	16-1	29,5
16	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	16-1	30
16	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	16-1	0
16	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	16-1	0,5
16	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	16-1	1
16	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	16-1	1,5
16	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	16-1	2
16	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	16-1	2,5
16	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	16-1	3
16	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	16-1	3,5
16	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	16-1	4
16	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	16-1	4,5
16	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	16-1	5
16	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	16-1	5,5
16	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	16-1	6
16	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	16-1	6,5
16	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	16-1	7
16	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	16-1	7,5
16	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	16-1	8
16	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	16-1	8,5
16	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	16-1	9
16	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	16-1	9,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	16-1	10
16	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	16-1	10,5
16	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	16-1	11
16	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	16-1	11,5
16	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	16-1	12
16	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	16-1	12,5
16	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	16-1	13
16	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	16-1	13,5
16	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	16-1	14
16	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	16-1	14,5
16	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	16-1	15
16	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	16-1	15
16	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	16-1	15,5
16	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	16-1	16
16	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	16-1	16,5
16	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	16-1	17
16	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	16-1	17,5
16	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	16-1	18
16	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	16-1	18,5
16	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	16-1	19
16	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	16-1	19,5
16	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	16-1	20
16	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	16-1	20,5
16	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	16-1	21
16	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	16-1	21,5
16	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	16-1	22
16	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	16-1	22,5
16	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	16-1	23
16	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	16-1	23,5
16	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	16-1	24
16	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	16-1	24,5
16	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	16-1	25
16	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	16-1	25,5
16	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	16-1	26
16	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	16-1	26,5
16	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	16-1	27
16	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	16-1	27,5
16	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	16-1	28
16	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	16-1	28,5
16	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	16-1	29
16	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	16-1	29,5
16	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	16-1	30
16	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	16-1	0
16	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	16-1	0,5
16	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	16-1	1
16	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	16-1	1,5
16	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	16-1	2
16	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	16-1	2,5
16	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	16-1	3
16	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	16-1	3,5
16	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	16-1	4
16	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	16-1	4,5
16	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	16-1	5
16	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	16-1	5,5
16	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	16-1	6
16	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	16-1	6,5
16	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	16-1	7
16	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	16-1	7,5
16	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	16-1	8

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	16-1	8,5
16	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	16-1	9
16	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	16-1	9,5
16	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	16-1	10
16	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	16-1	10,5
16	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	16-1	11
16	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	16-1	11,5
16	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	16-1	12
16	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	16-1	12,5
16	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	16-1	13
16	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	16-1	13,5
16	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	16-1	14
16	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	16-1	14,5
16	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	16-1	15
16	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	16-1	15
16	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	16-1	15,5
16	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	16-1	16
16	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	16-1	16,5
16	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	16-1	17
16	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	16-1	17,5
16	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	16-1	18
16	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	16-1	18,5
16	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	16-1	19
16	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	16-1	19,5
16	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	16-1	20
16	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	16-1	20,5
16	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	16-1	21
16	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	16-1	21,5
16	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	16-1	22
16	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	16-1	22,5
16	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	16-1	23
16	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	16-1	23,5
16	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	16-1	24
16	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	16-1	24,5
16	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	16-1	25
16	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	16-1	25,5
16	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	16-1	26
16	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	16-1	26,5
16	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	16-1	27
16	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	16-1	27,5
16	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	16-1	28
16	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	16-1	28,5
16	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	16-1	29
16	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	16-1	29,5
16	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	16-1	30
16	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	16-1	0
16	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	16-1	0,5
16	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	16-1	1
16	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	16-1	1,5
16	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	16-1	2
16	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	16-1	2,5
16	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	16-1	3
16	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	16-1	3,5
16	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	16-1	4
16	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	16-1	4,5
16	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	16-1	5
16	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	16-1	5,5
16	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	16-1	6
16	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	16-1	6,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	16-1	7
16	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	16-1	7,5
16	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	16-1	8
16	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	16-1	8,5
16	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	16-1	9
16	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	16-1	9,5
16	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	16-1	10
16	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	16-1	10,5
16	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	16-1	11
16	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	16-1	11,5
16	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	16-1	12
16	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	16-1	12,5
16	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	16-1	13
16	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	16-1	13,5
16	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	16-1	14
16	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	16-1	14,5
16	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	16-1	15
16	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	16-1	15
16	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	16-1	15,5
16	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	16-1	16
16	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	16-1	16,5
16	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	16-1	17
16	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	16-1	17,5
16	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	16-1	18
16	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	16-1	18,5
16	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	16-1	19
16	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	16-1	19,5
16	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	16-1	20
16	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	16-1	20,5
16	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	16-1	21
16	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	16-1	21,5
16	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	16-1	22
16	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	16-1	22,5
16	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	16-1	23
16	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	16-1	23,5
16	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	16-1	24
16	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	16-1	24,5
16	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	16-1	25
16	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	16-1	25,5
16	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	16-1	26
16	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	16-1	26,5
16	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	16-1	27
16	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	16-1	27,5
16	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	16-1	28
16	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	16-1	28,5
16	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	16-1	29
16	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	16-1	29,5
16	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	16-1	30
16	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	16-1	0
16	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	16-1	0,5
16	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	16-1	1
16	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	16-1	1,5
16	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	16-1	2
16	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	16-1	2,5
16	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	16-1	3
16	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	16-1	3,5
16	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	16-1	4
16	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	16-1	4,5
16	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	16-1	5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	16-1	5,5
16	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	16-1	6
16	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	16-1	6,5
16	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	16-1	7
16	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	16-1	7,5
16	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	16-1	8
16	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	16-1	8,5
16	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	16-1	9
16	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	16-1	9,5
16	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	16-1	10
16	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	16-1	10,5
16	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	16-1	11
16	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	16-1	11,5
16	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	16-1	12
16	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	16-1	12,5
16	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	16-1	13
16	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	16-1	13,5
16	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	16-1	14
16	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	16-1	14,5
16	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	16-1	15
16	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	16-1	15
16	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	16-1	15,5
16	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	16-1	16
16	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	16-1	16,5
16	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	16-1	17
16	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	16-1	17,5
16	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	16-1	18
16	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	16-1	18,5
16	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	16-1	19
16	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	16-1	19,5
16	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	16-1	20
16	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	16-1	20,5
16	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	16-1	21
16	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	16-1	21,5
16	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	16-1	22
16	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	16-1	22,5
16	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	16-1	23
16	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	16-1	23,5
16	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	16-1	24
16	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	16-1	24,5
16	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	16-1	25
16	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	16-1	25,5
16	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	16-1	26
16	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	16-1	26,5
16	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	16-1	27
16	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	16-1	27,5
16	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	16-1	28
16	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	16-1	28,5
16	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	16-1	29
16	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	16-1	29,5
16	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	16-1	30
16	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	16-1	0
16	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	16-1	0,5
16	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	16-1	1
16	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	16-1	1,5
16	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	16-1	2
16	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	16-1	2,5
16	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	16-1	3
16	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	16-1	3,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
16	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	16-1	4
16	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	16-1	4,5
16	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	16-1	5
16	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	16-1	5,5
16	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	16-1	6
16	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	16-1	6,5
16	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	16-1	7
16	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	16-1	7,5
16	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	16-1	8
16	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	16-1	8,5
16	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	16-1	9
16	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	16-1	9,5
16	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	16-1	10
16	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	16-1	10,5
16	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	16-1	11
16	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	16-1	11,5
16	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	16-1	12
16	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	16-1	12,5
16	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	16-1	13
16	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	16-1	13,5
16	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	16-1	14
16	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	16-1	14,5
16	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	16-1	15
16	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	16-1	15
16	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	16-1	15,5
16	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	16-1	16
16	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	16-1	16,5
16	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	16-1	17
16	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	16-1	17,5
16	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	16-1	18
16	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	16-1	18,5
16	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	16-1	19
16	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	16-1	19,5
16	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	16-1	20
16	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	16-1	20,5
16	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	16-1	21
16	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	16-1	21,5
16	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	16-1	22
16	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	16-1	22,5
16	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	16-1	23
16	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	16-1	23,5
16	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	16-1	24
16	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	16-1	24,5
16	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	16-1	25
16	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	16-1	25,5
16	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	16-1	26
16	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	16-1	26,5
16	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	16-1	27
16	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	16-1	27,5
16	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	16-1	28
16	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	16-1	28,5
16	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	16-1	29
16	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	16-1	29,5
16	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	16-1	30
22	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	22-1	0
22	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	22-1	0,5
22	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	22-1	1
22	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	22-1	1,5
22	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	22-1	2

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	22-1	2,5
22	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	22-1	3
22	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	22-1	3,5
22	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	22-1	4
22	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	22-1	4,5
22	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	22-1	5
22	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	22-1	5,5
22	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	22-1	6
22	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	22-1	6,5
22	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	22-1	7
22	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	22-1	7,5
22	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	22-1	8
22	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	22-1	8,5
22	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	22-1	9
22	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	22-1	9,5
22	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	22-1	10
22	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	22-1	10,5
22	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	22-1	11
22	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	22-1	11,5
22	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	22-1	12
22	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	22-1	12,5
22	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	22-1	13
22	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	22-1	13,5
22	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	22-1	14
22	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	22-1	14,5
22	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	22-1	15
22	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	22-1	15
22	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	22-1	15,5
22	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	22-1	16
22	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	22-1	16,5
22	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	22-1	17
22	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	22-1	17,5
22	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	22-1	18
22	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	22-1	18,5
22	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	22-1	19
22	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	22-1	19,5
22	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	22-1	20
22	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	22-1	20,5
22	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	22-1	21
22	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	22-1	21,5
22	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	22-1	22
22	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	22-1	22,5
22	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	22-1	23
22	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	22-1	23,5
22	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	22-1	24
22	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	22-1	24,5
22	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	22-1	25
22	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	22-1	25,5
22	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	22-1	26
22	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	22-1	26,5
22	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	22-1	27
22	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	22-1	27,5
22	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	22-1	28
22	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	22-1	28,5
22	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	22-1	29
22	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	22-1	29,5
22	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	22-1	30
22	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	22-1	0
22	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	22-1	0,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	22-1	1
22	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	22-1	1,5
22	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	22-1	2
22	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	22-1	2,5
22	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	22-1	3
22	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	22-1	3,5
22	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	22-1	4
22	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	22-1	4,5
22	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	22-1	5
22	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	22-1	5,5
22	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	22-1	6
22	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	22-1	6,5
22	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	22-1	7
22	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	22-1	7,5
22	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	22-1	8
22	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	22-1	8,5
22	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	22-1	9
22	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	22-1	9,5
22	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	22-1	10
22	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	22-1	10,5
22	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	22-1	11
22	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	22-1	11,5
22	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	22-1	12
22	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	22-1	12,5
22	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	22-1	13
22	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	22-1	13,5
22	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	22-1	14
22	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	22-1	14,5
22	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	22-1	15
22	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	22-1	15
22	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	22-1	15,5
22	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	22-1	16
22	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	22-1	16,5
22	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	22-1	17
22	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	22-1	17,5
22	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	22-1	18
22	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	22-1	18,5
22	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	22-1	19
22	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	22-1	19,5
22	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	22-1	20
22	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	22-1	20,5
22	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	22-1	21
22	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	22-1	21,5
22	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	22-1	22
22	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	22-1	22,5
22	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	22-1	23
22	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	22-1	23,5
22	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	22-1	24
22	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	22-1	24,5
22	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	22-1	25
22	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	22-1	25,5
22	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	22-1	26
22	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	22-1	26,5
22	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	22-1	27
22	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	22-1	27,5
22	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	22-1	28
22	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	22-1	28,5
22	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	22-1	29
22	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	22-1	29,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	22-1	30
22	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	22-1	0
22	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	22-1	0,5
22	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	22-1	1
22	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	22-1	1,5
22	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	22-1	2
22	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	22-1	2,5
22	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	22-1	3
22	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	22-1	3,5
22	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	22-1	4
22	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	22-1	4,5
22	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	22-1	5
22	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	22-1	5,5
22	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	22-1	6
22	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	22-1	6,5
22	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	22-1	7
22	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	22-1	7,5
22	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	22-1	8
22	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	22-1	8,5
22	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	22-1	9
22	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	22-1	9,5
22	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	22-1	10
22	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	22-1	10,5
22	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	22-1	11
22	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	22-1	11,5
22	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	22-1	12
22	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	22-1	12,5
22	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	22-1	13
22	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	22-1	13,5
22	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	22-1	14
22	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	22-1	14,5
22	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	22-1	15
22	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	22-1	15
22	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	22-1	15,5
22	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	22-1	16
22	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	22-1	16,5
22	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	22-1	17
22	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	22-1	17,5
22	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	22-1	18
22	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	22-1	18,5
22	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	22-1	19
22	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	22-1	19,5
22	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	22-1	20
22	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	22-1	20,5
22	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	22-1	21
22	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	22-1	21,5
22	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	22-1	22
22	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	22-1	22,5
22	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	22-1	23
22	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	22-1	23,5
22	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	22-1	24
22	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	22-1	24,5
22	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	22-1	25
22	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	22-1	25,5
22	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	22-1	26
22	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	22-1	26,5
22	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	22-1	27
22	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	22-1	27,5
22	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	22-1	28

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	22-1	28,5
22	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	22-1	29
22	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	22-1	29,5
22	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	22-1	30
22	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	22-1	0
22	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	22-1	0,5
22	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	22-1	1
22	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	22-1	1,5
22	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	22-1	2
22	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	22-1	2,5
22	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	22-1	3
22	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	22-1	3,5
22	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	22-1	4
22	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	22-1	4,5
22	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	22-1	5
22	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	22-1	5,5
22	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	22-1	6
22	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	22-1	6,5
22	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	22-1	7
22	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	22-1	7,5
22	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	22-1	8
22	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	22-1	8,5
22	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	22-1	9
22	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	22-1	9,5
22	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	22-1	10
22	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	22-1	10,5
22	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	22-1	11
22	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	22-1	11,5
22	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	22-1	12
22	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	22-1	12,5
22	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	22-1	13
22	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	22-1	13,5
22	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	22-1	14
22	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	22-1	14,5
22	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	22-1	15
22	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	22-1	15
22	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	22-1	15,5
22	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	22-1	16
22	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	22-1	16,5
22	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	22-1	17
22	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	22-1	17,5
22	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	22-1	18
22	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	22-1	18,5
22	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	22-1	19
22	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	22-1	19,5
22	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	22-1	20
22	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	22-1	20,5
22	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	22-1	21
22	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	22-1	21,5
22	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	22-1	22
22	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	22-1	22,5
22	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	22-1	23
22	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	22-1	23,5
22	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	22-1	24
22	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	22-1	24,5
22	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	22-1	25
22	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	22-1	25,5
22	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	22-1	26
22	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	22-1	26,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	22-1	27
22	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	22-1	27,5
22	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	22-1	28
22	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	22-1	28,5
22	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	22-1	29
22	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	22-1	29,5
22	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	22-1	30
22	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	22-1	0
22	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	22-1	0,5
22	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	22-1	1
22	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	22-1	1,5
22	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	22-1	2
22	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	22-1	2,5
22	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	22-1	3
22	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	22-1	3,5
22	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	22-1	4
22	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	22-1	4,5
22	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	22-1	5
22	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	22-1	5,5
22	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	22-1	6
22	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	22-1	6,5
22	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	22-1	7
22	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	22-1	7,5
22	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	22-1	8
22	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	22-1	8,5
22	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	22-1	9
22	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	22-1	9,5
22	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	22-1	10
22	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	22-1	10,5
22	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	22-1	11
22	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	22-1	11,5
22	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	22-1	12
22	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	22-1	12,5
22	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	22-1	13
22	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	22-1	13,5
22	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	22-1	14
22	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	22-1	14,5
22	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	22-1	15
22	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	22-1	15
22	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	22-1	15,5
22	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	22-1	16
22	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	22-1	16,5
22	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	22-1	17
22	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	22-1	17,5
22	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	22-1	18
22	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	22-1	18,5
22	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	22-1	19
22	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	22-1	19,5
22	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	22-1	20
22	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	22-1	20,5
22	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	22-1	21
22	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	22-1	21,5
22	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	22-1	22
22	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	22-1	22,5
22	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	22-1	23
22	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	22-1	23,5
22	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	22-1	24
22	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	22-1	24,5
22	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	22-1	25

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	22-1	25,5
22	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	22-1	26
22	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	22-1	26,5
22	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	22-1	27
22	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	22-1	27,5
22	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	22-1	28
22	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	22-1	28,5
22	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	22-1	29
22	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	22-1	29,5
22	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	22-1	30
22	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	22-1	0
22	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	22-1	0,5
22	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	22-1	1
22	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	22-1	1,5
22	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	22-1	2
22	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	22-1	2,5
22	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	22-1	3
22	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	22-1	3,5
22	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	22-1	4
22	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	22-1	4,5
22	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	22-1	5
22	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	22-1	5,5
22	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	22-1	6
22	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	22-1	6,5
22	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	22-1	7
22	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	22-1	7,5
22	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	22-1	8
22	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	22-1	8,5
22	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	22-1	9
22	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	22-1	9,5
22	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	22-1	10
22	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	22-1	10,5
22	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	22-1	11
22	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	22-1	11,5
22	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	22-1	12
22	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	22-1	12,5
22	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	22-1	13
22	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	22-1	13,5
22	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	22-1	14
22	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	22-1	14,5
22	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	22-1	15
22	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	22-1	15
22	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	22-1	15,5
22	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	22-1	16
22	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	22-1	16,5
22	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	22-1	17
22	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	22-1	17,5
22	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	22-1	18
22	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	22-1	18,5
22	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	22-1	19
22	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	22-1	19,5
22	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	22-1	20
22	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	22-1	20,5
22	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	22-1	21
22	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	22-1	21,5
22	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	22-1	22
22	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	22-1	22,5
22	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	22-1	23
22	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	22-1	23,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
22	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	22-1	24
22	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	22-1	24,5
22	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	22-1	25
22	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	22-1	25,5
22	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	22-1	26
22	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	22-1	26,5
22	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	22-1	27
22	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	22-1	27,5
22	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	22-1	28
22	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	22-1	28,5
22	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	22-1	29
22	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	22-1	29,5
22	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	22-1	30
28	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	28-1	0
28	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	28-1	0,5
28	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	28-1	1
28	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	28-1	1,5
28	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	28-1	2
28	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	28-1	2,5
28	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	28-1	3
28	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	28-1	3,5
28	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	28-1	4
28	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	28-1	4,5
28	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	28-1	5
28	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	28-1	5,5
28	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	28-1	6
28	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	28-1	6,5
28	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	28-1	7
28	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	28-1	7,5
28	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	28-1	8
28	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	28-1	8,5
28	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	28-1	9
28	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	28-1	9,5
28	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	28-1	10
28	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	28-1	10,5
28	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	28-1	11
28	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	28-1	11,5
28	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	28-1	12
28	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	28-1	12,5
28	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	28-1	13
28	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	28-1	13,5
28	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	28-1	14
28	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	28-1	14,5
28	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	28-1	15
28	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	28-1	15
28	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	28-1	15,5
28	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	28-1	16
28	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	28-1	16,5
28	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	28-1	17
28	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	28-1	17,5
28	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	28-1	18
28	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	28-1	18,5
28	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	28-1	19
28	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	28-1	19,5
28	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	28-1	20
28	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	28-1	20,5
28	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	28-1	21
28	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	28-1	21,5
28	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	28-1	22

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	28-1	22,5
28	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	28-1	23
28	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	28-1	23,5
28	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	28-1	24
28	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	28-1	24,5
28	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	28-1	25
28	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	28-1	25,5
28	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	28-1	26
28	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	28-1	26,5
28	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	28-1	27
28	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	28-1	27,5
28	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	28-1	28
28	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	28-1	28,5
28	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	28-1	29
28	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	28-1	29,5
28	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	28-1	30
28	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	28-1	0
28	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	28-1	0,5
28	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	28-1	1
28	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	28-1	1,5
28	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	28-1	2
28	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	28-1	2,5
28	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	28-1	3
28	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	28-1	3,5
28	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	28-1	4
28	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	28-1	4,5
28	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	28-1	5
28	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	28-1	5,5
28	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	28-1	6
28	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	28-1	6,5
28	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	28-1	7
28	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	28-1	7,5
28	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	28-1	8
28	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	28-1	8,5
28	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	28-1	9
28	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	28-1	9,5
28	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	28-1	10
28	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	28-1	10,5
28	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	28-1	11
28	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	28-1	11,5
28	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	28-1	12
28	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	28-1	12,5
28	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	28-1	13
28	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	28-1	13,5
28	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	28-1	14
28	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	28-1	14,5
28	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	28-1	15
28	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	28-1	15
28	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	28-1	15,5
28	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	28-1	16
28	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	28-1	16,5
28	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	28-1	17
28	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	28-1	17,5
28	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	28-1	18
28	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	28-1	18,5
28	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	28-1	19
28	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	28-1	19,5
28	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	28-1	20
28	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	28-1	20,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	28-1	21
28	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	28-1	21,5
28	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	28-1	22
28	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	28-1	22,5
28	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	28-1	23
28	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	28-1	23,5
28	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	28-1	24
28	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	28-1	24,5
28	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	28-1	25
28	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	28-1	25,5
28	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	28-1	26
28	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	28-1	26,5
28	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	28-1	27
28	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	28-1	27,5
28	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	28-1	28
28	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	28-1	28,5
28	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	28-1	29
28	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	28-1	29,5
28	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	28-1	30
28	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	28-1	0
28	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	28-1	0,5
28	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	28-1	1
28	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	28-1	1,5
28	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	28-1	2
28	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	28-1	2,5
28	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	28-1	3
28	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	28-1	3,5
28	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	28-1	4
28	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	28-1	4,5
28	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	28-1	5
28	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	28-1	5,5
28	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	28-1	6
28	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	28-1	6,5
28	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	28-1	7
28	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	28-1	7,5
28	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	28-1	8
28	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	28-1	8,5
28	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	28-1	9
28	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	28-1	9,5
28	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	28-1	10
28	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	28-1	10,5
28	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	28-1	11
28	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	28-1	11,5
28	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	28-1	12
28	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	28-1	12,5
28	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	28-1	13
28	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	28-1	13,5
28	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	28-1	14
28	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	28-1	14,5
28	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	28-1	15
28	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	28-1	15
28	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	28-1	15,5
28	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	28-1	16
28	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	28-1	16,5
28	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	28-1	17
28	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	28-1	17,5
28	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	28-1	18
28	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	28-1	18,5
28	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	28-1	19

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	28-1	19,5
28	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	28-1	20
28	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	28-1	20,5
28	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	28-1	21
28	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	28-1	21,5
28	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	28-1	22
28	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	28-1	22,5
28	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	28-1	23
28	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	28-1	23,5
28	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	28-1	24
28	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	28-1	24,5
28	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	28-1	25
28	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	28-1	25,5
28	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	28-1	26
28	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	28-1	26,5
28	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	28-1	27
28	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	28-1	27,5
28	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	28-1	28
28	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	28-1	28,5
28	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	28-1	29
28	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	28-1	29,5
28	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	28-1	30
28	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	28-1	0
28	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	28-1	0,5
28	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	28-1	1
28	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	28-1	1,5
28	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	28-1	2
28	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	28-1	2,5
28	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	28-1	3
28	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	28-1	3,5
28	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	28-1	4
28	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	28-1	4,5
28	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	28-1	5
28	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	28-1	5,5
28	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	28-1	6
28	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	28-1	6,5
28	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	28-1	7
28	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	28-1	7,5
28	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	28-1	8
28	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	28-1	8,5
28	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	28-1	9
28	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	28-1	9,5
28	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	28-1	10
28	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	28-1	10,5
28	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	28-1	11
28	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	28-1	11,5
28	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	28-1	12
28	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	28-1	12,5
28	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	28-1	13
28	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	28-1	13,5
28	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	28-1	14
28	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	28-1	14,5
28	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	28-1	15
28	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	28-1	15
28	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	28-1	15,5
28	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	28-1	16
28	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	28-1	16,5
28	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	28-1	17
28	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	28-1	17,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	28-1	18
28	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	28-1	18,5
28	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	28-1	19
28	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	28-1	19,5
28	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	28-1	20
28	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	28-1	20,5
28	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	28-1	21
28	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	28-1	21,5
28	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	28-1	22
28	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	28-1	22,5
28	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	28-1	23
28	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	28-1	23,5
28	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	28-1	24
28	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	28-1	24,5
28	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	28-1	25
28	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	28-1	25,5
28	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	28-1	26
28	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	28-1	26,5
28	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	28-1	27
28	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	28-1	27,5
28	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	28-1	28
28	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	28-1	28,5
28	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	28-1	29
28	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	28-1	29,5
28	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	28-1	30
28	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	28-1	0
28	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	28-1	0,5
28	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	28-1	1
28	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	28-1	1,5
28	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	28-1	2
28	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	28-1	2,5
28	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	28-1	3
28	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	28-1	3,5
28	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	28-1	4
28	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	28-1	4,5
28	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	28-1	5
28	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	28-1	5,5
28	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	28-1	6
28	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	28-1	6,5
28	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	28-1	7
28	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	28-1	7,5
28	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	28-1	8
28	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	28-1	8,5
28	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	28-1	9
28	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	28-1	9,5
28	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	28-1	10
28	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	28-1	10,5
28	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	28-1	11
28	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	28-1	11,5
28	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	28-1	12
28	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	28-1	12,5
28	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	28-1	13
28	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	28-1	13,5
28	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	28-1	14
28	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	28-1	14,5
28	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	28-1	15
28	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	28-1	15
28	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	28-1	15,5
28	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	28-1	16

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	28-1	16,5
28	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	28-1	17
28	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	28-1	17,5
28	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	28-1	18
28	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	28-1	18,5
28	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	28-1	19
28	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	28-1	19,5
28	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	28-1	20
28	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	28-1	20,5
28	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	28-1	21
28	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	28-1	21,5
28	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	28-1	22
28	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	28-1	22,5
28	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	28-1	23
28	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	28-1	23,5
28	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	28-1	24
28	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	28-1	24,5
28	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	28-1	25
28	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	28-1	25,5
28	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	28-1	26
28	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	28-1	26,5
28	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	28-1	27
28	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	28-1	27,5
28	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	28-1	28
28	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	28-1	28,5
28	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	28-1	29
28	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	28-1	29,5
28	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	28-1	30
28	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	28-1	0
28	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	28-1	0,5
28	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	28-1	1
28	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	28-1	1,5
28	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	28-1	2
28	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	28-1	2,5
28	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	28-1	3
28	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	28-1	3,5
28	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	28-1	4
28	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	28-1	4,5
28	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	28-1	5
28	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	28-1	5,5
28	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	28-1	6
28	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	28-1	6,5
28	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	28-1	7
28	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	28-1	7,5
28	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	28-1	8
28	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	28-1	8,5
28	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	28-1	9
28	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	28-1	9,5
28	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	28-1	10
28	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	28-1	10,5
28	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	28-1	11
28	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	28-1	11,5
28	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	28-1	12
28	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	28-1	12,5
28	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	28-1	13
28	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	28-1	13,5
28	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	28-1	14
28	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	28-1	14,5
28	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	28-1	15

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
28	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	28-1	15
28	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	28-1	15,5
28	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	28-1	16
28	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	28-1	16,5
28	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	28-1	17
28	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	28-1	17,5
28	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	28-1	18
28	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	28-1	18,5
28	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	28-1	19
28	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	28-1	19,5
28	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	28-1	20
28	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	28-1	20,5
28	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	28-1	21
28	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	28-1	21,5
28	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	28-1	22
28	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	28-1	22,5
28	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	28-1	23
28	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	28-1	23,5
28	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	28-1	24
28	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	28-1	24,5
28	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	28-1	25
28	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	28-1	25,5
28	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	28-1	26
28	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	28-1	26,5
28	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	28-1	27
28	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	28-1	27,5
28	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	28-1	28
28	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	28-1	28,5
28	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	28-1	29
28	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	28-1	29,5
28	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	28-1	30
34	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	34-1	0
34	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	34-1	0,5
34	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	34-1	1
34	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	34-1	1,5
34	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	34-1	2
34	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	34-1	2,5
34	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	34-1	3
34	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	34-1	3,5
34	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	34-1	4
34	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	34-1	4,5
34	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	34-1	5
34	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	34-1	5,5
34	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	34-1	6
34	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	34-1	6,5
34	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	34-1	7
34	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	34-1	7,5
34	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	34-1	8
34	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	34-1	8,5
34	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	34-1	9
34	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	34-1	9,5
34	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	34-1	10
34	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	34-1	10,5
34	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	34-1	11
34	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	34-1	11,5
34	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	34-1	12
34	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	34-1	12,5
34	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	34-1	13
34	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	34-1	13,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	34-1	14
34	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	34-1	14,5
34	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	34-1	15
34	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	34-1	15
34	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	34-1	15,5
34	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	34-1	16
34	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	34-1	16,5
34	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	34-1	17
34	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	34-1	17,5
34	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	34-1	18
34	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	34-1	18,5
34	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	34-1	19
34	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	34-1	19,5
34	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	34-1	20
34	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	34-1	20,5
34	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	34-1	21
34	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	34-1	21,5
34	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	34-1	22
34	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	34-1	22,5
34	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	34-1	23
34	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	34-1	23,5
34	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	34-1	24
34	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	34-1	24,5
34	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	34-1	25
34	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	34-1	25,5
34	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	34-1	26
34	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	34-1	26,5
34	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	34-1	27
34	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	34-1	27,5
34	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	34-1	28
34	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	34-1	28,5
34	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	34-1	29
34	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	34-1	29,5
34	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	34-1	30
34	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	34-1	0
34	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	34-1	0,5
34	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	34-1	1
34	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	34-1	1,5
34	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	34-1	2
34	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	34-1	2,5
34	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	34-1	3
34	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	34-1	3,5
34	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	34-1	4
34	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	34-1	4,5
34	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	34-1	5
34	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	34-1	5,5
34	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	34-1	6
34	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	34-1	6,5
34	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	34-1	7
34	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	34-1	7,5
34	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	34-1	8
34	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	34-1	8,5
34	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	34-1	9
34	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	34-1	9,5
34	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	34-1	10
34	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	34-1	10,5
34	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	34-1	11
34	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	34-1	11,5
34	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	34-1	12

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	34-1	12,5
34	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	34-1	13
34	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	34-1	13,5
34	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	34-1	14
34	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	34-1	14,5
34	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	34-1	15
34	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	34-1	15
34	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	34-1	15,5
34	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	34-1	16
34	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	34-1	16,5
34	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	34-1	17
34	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	34-1	17,5
34	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	34-1	18
34	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	34-1	18,5
34	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	34-1	19
34	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	34-1	19,5
34	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	34-1	20
34	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	34-1	20,5
34	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	34-1	21
34	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	34-1	21,5
34	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	34-1	22
34	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	34-1	22,5
34	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	34-1	23
34	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	34-1	23,5
34	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	34-1	24
34	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	34-1	24,5
34	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	34-1	25
34	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	34-1	25,5
34	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	34-1	26
34	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	34-1	26,5
34	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	34-1	27
34	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	34-1	27,5
34	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	34-1	28
34	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	34-1	28,5
34	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	34-1	29
34	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	34-1	29,5
34	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	34-1	30
34	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	34-1	0
34	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	34-1	0,5
34	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	34-1	1
34	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	34-1	1,5
34	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	34-1	2
34	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	34-1	2,5
34	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	34-1	3
34	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	34-1	3,5
34	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	34-1	4
34	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	34-1	4,5
34	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	34-1	5
34	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	34-1	5,5
34	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	34-1	6
34	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	34-1	6,5
34	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	34-1	7
34	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	34-1	7,5
34	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	34-1	8
34	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	34-1	8,5
34	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	34-1	9
34	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	34-1	9,5
34	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	34-1	10
34	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	34-1	10,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	34-1	11
34	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	34-1	11,5
34	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	34-1	12
34	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	34-1	12,5
34	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	34-1	13
34	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	34-1	13,5
34	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	34-1	14
34	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	34-1	14,5
34	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	34-1	15
34	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	34-1	15
34	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	34-1	15,5
34	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	34-1	16
34	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	34-1	16,5
34	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	34-1	17
34	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	34-1	17,5
34	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	34-1	18
34	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	34-1	18,5
34	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	34-1	19
34	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	34-1	19,5
34	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	34-1	20
34	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	34-1	20,5
34	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	34-1	21
34	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	34-1	21,5
34	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	34-1	22
34	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	34-1	22,5
34	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	34-1	23
34	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	34-1	23,5
34	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	34-1	24
34	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	34-1	24,5
34	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	34-1	25
34	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	34-1	25,5
34	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	34-1	26
34	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	34-1	26,5
34	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	34-1	27
34	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	34-1	27,5
34	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	34-1	28
34	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	34-1	28,5
34	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	34-1	29
34	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	34-1	29,5
34	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	34-1	30
34	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	34-1	0
34	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	34-1	0,5
34	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	34-1	1
34	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	34-1	1,5
34	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	34-1	2
34	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	34-1	2,5
34	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	34-1	3
34	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	34-1	3,5
34	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	34-1	4
34	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	34-1	4,5
34	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	34-1	5
34	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	34-1	5,5
34	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	34-1	6
34	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	34-1	6,5
34	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	34-1	7
34	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	34-1	7,5
34	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	34-1	8
34	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	34-1	8,5
34	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	34-1	9

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	34-1	9,5
34	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	34-1	10
34	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	34-1	10,5
34	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	34-1	11
34	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	34-1	11,5
34	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	34-1	12
34	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	34-1	12,5
34	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	34-1	13
34	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	34-1	13,5
34	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	34-1	14
34	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	34-1	14,5
34	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	34-1	15
34	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	34-1	15
34	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	34-1	15,5
34	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	34-1	16
34	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	34-1	16,5
34	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	34-1	17
34	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	34-1	17,5
34	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	34-1	18
34	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	34-1	18,5
34	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	34-1	19
34	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	34-1	19,5
34	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	34-1	20
34	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	34-1	20,5
34	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	34-1	21
34	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	34-1	21,5
34	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	34-1	22
34	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	34-1	22,5
34	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	34-1	23
34	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	34-1	23,5
34	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	34-1	24
34	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	34-1	24,5
34	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	34-1	25
34	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	34-1	25,5
34	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	34-1	26
34	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	34-1	26,5
34	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	34-1	27
34	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	34-1	27,5
34	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	34-1	28
34	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	34-1	28,5
34	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	34-1	29
34	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	34-1	29,5
34	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	34-1	30
34	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	34-1	0
34	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	34-1	0,5
34	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	34-1	1
34	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	34-1	1,5
34	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	34-1	2
34	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	34-1	2,5
34	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	34-1	3
34	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	34-1	3,5
34	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	34-1	4
34	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	34-1	4,5
34	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	34-1	5
34	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	34-1	5,5
34	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	34-1	6
34	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	34-1	6,5
34	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	34-1	7
34	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	34-1	7,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	34-1	8
34	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	34-1	8,5
34	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	34-1	9
34	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	34-1	9,5
34	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	34-1	10
34	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	34-1	10,5
34	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	34-1	11
34	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	34-1	11,5
34	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	34-1	12
34	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	34-1	12,5
34	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	34-1	13
34	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	34-1	13,5
34	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	34-1	14
34	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	34-1	14,5
34	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	34-1	15
34	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	34-1	15
34	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	34-1	15,5
34	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	34-1	16
34	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	34-1	16,5
34	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	34-1	17
34	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	34-1	17,5
34	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	34-1	18
34	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	34-1	18,5
34	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	34-1	19
34	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	34-1	19,5
34	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	34-1	20
34	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	34-1	20,5
34	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	34-1	21
34	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	34-1	21,5
34	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	34-1	22
34	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	34-1	22,5
34	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	34-1	23
34	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	34-1	23,5
34	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	34-1	24
34	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	34-1	24,5
34	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	34-1	25
34	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	34-1	25,5
34	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	34-1	26
34	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	34-1	26,5
34	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	34-1	27
34	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	34-1	27,5
34	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	34-1	28
34	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	34-1	28,5
34	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	34-1	29
34	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	34-1	29,5
34	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	34-1	30
34	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	34-1	0
34	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	34-1	0,5
34	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	34-1	1
34	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	34-1	1,5
34	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	34-1	2
34	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	34-1	2,5
34	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	34-1	3
34	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	34-1	3,5
34	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	34-1	4
34	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	34-1	4,5
34	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	34-1	5
34	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	34-1	5,5
34	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	34-1	6

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
34	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	34-1	6,5
34	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	34-1	7
34	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	34-1	7,5
34	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	34-1	8
34	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	34-1	8,5
34	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	34-1	9
34	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	34-1	9,5
34	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	34-1	10
34	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	34-1	10,5
34	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	34-1	11
34	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	34-1	11,5
34	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	34-1	12
34	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	34-1	12,5
34	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	34-1	13
34	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	34-1	13,5
34	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	34-1	14
34	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	34-1	14,5
34	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	34-1	15
34	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	34-1	15
34	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	34-1	15,5
34	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	34-1	16
34	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	34-1	16,5
34	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	34-1	17
34	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	34-1	17,5
34	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	34-1	18
34	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	34-1	18,5
34	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	34-1	19
34	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	34-1	19,5
34	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	34-1	20
34	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	34-1	20,5
34	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	34-1	21
34	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	34-1	21,5
34	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	34-1	22
34	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	34-1	22,5
34	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	34-1	23
34	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	34-1	23,5
34	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	34-1	24
34	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	34-1	24,5
34	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	34-1	25
34	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	34-1	25,5
34	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	34-1	26
34	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	34-1	26,5
34	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	34-1	27
34	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	34-1	27,5
34	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	34-1	28
34	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	34-1	28,5
34	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	34-1	29
34	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	34-1	29,5
34	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	34-1	30
40	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	40-1	0
40	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	40-1	0,5
40	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	40-1	1
40	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	40-1	1,5
40	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	40-1	2
40	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	40-1	2,5
40	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	40-1	3
40	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	40-1	3,5
40	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	40-1	4
40	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	40-1	4,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	40-1	5
40	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	40-1	5,5
40	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	40-1	6
40	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	40-1	6,5
40	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	40-1	7
40	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	40-1	7,5
40	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	40-1	8
40	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	40-1	8,5
40	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	40-1	9
40	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	40-1	9,5
40	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	40-1	10
40	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	40-1	10,5
40	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	40-1	11
40	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	40-1	11,5
40	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	40-1	12
40	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	40-1	12,5
40	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	40-1	13
40	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	40-1	13,5
40	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	40-1	14
40	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	40-1	14,5
40	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	40-1	15
40	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	40-1	15
40	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	40-1	15,5
40	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	40-1	16
40	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	40-1	16,5
40	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	40-1	17
40	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	40-1	17,5
40	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	40-1	18
40	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	40-1	18,5
40	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	40-1	19
40	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	40-1	19,5
40	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	40-1	20
40	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	40-1	20,5
40	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	40-1	21
40	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	40-1	21,5
40	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	40-1	22
40	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	40-1	22,5
40	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	40-1	23
40	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	40-1	23,5
40	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	40-1	24
40	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	40-1	24,5
40	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	40-1	25
40	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	40-1	25,5
40	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	40-1	26
40	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	40-1	26,5
40	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	40-1	27
40	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	40-1	27,5
40	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	40-1	28
40	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	40-1	28,5
40	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	40-1	29
40	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	40-1	29,5
40	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	40-1	30
40	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	40-1	0
40	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	40-1	0,5
40	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	40-1	1
40	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	40-1	1,5
40	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	40-1	2
40	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	40-1	2,5
40	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	40-1	3

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	40-1	3,5
40	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	40-1	4
40	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	40-1	4,5
40	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	40-1	5
40	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	40-1	5,5
40	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	40-1	6
40	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	40-1	6,5
40	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	40-1	7
40	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	40-1	7,5
40	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	40-1	8
40	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	40-1	8,5
40	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	40-1	9
40	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	40-1	9,5
40	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	40-1	10
40	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	40-1	10,5
40	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	40-1	11
40	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	40-1	11,5
40	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	40-1	12
40	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	40-1	12,5
40	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	40-1	13
40	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	40-1	13,5
40	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	40-1	14
40	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	40-1	14,5
40	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	40-1	15
40	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	40-1	15
40	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	40-1	15,5
40	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	40-1	16
40	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	40-1	16,5
40	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	40-1	17
40	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	40-1	17,5
40	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	40-1	18
40	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	40-1	18,5
40	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	40-1	19
40	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	40-1	19,5
40	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	40-1	20
40	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	40-1	20,5
40	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	40-1	21
40	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	40-1	21,5
40	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	40-1	22
40	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	40-1	22,5
40	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	40-1	23
40	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	40-1	23,5
40	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	40-1	24
40	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	40-1	24,5
40	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	40-1	25
40	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	40-1	25,5
40	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	40-1	26
40	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	40-1	26,5
40	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	40-1	27
40	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	40-1	27,5
40	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	40-1	28
40	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	40-1	28,5
40	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	40-1	29
40	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	40-1	29,5
40	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	40-1	30
40	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	40-1	0
40	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	40-1	0,5
40	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	40-1	1
40	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	40-1	1,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	40-1	2
40	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	40-1	2,5
40	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	40-1	3
40	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	40-1	3,5
40	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	40-1	4
40	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	40-1	4,5
40	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	40-1	5
40	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	40-1	5,5
40	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	40-1	6
40	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	40-1	6,5
40	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	40-1	7
40	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	40-1	7,5
40	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	40-1	8
40	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	40-1	8,5
40	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	40-1	9
40	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	40-1	9,5
40	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	40-1	10
40	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	40-1	10,5
40	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	40-1	11
40	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	40-1	11,5
40	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	40-1	12
40	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	40-1	12,5
40	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	40-1	13
40	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	40-1	13,5
40	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	40-1	14
40	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	40-1	14,5
40	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	40-1	15
40	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	40-1	15
40	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	40-1	15,5
40	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	40-1	16
40	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	40-1	16,5
40	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	40-1	17
40	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	40-1	17,5
40	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	40-1	18
40	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	40-1	18,5
40	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	40-1	19
40	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	40-1	19,5
40	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	40-1	20
40	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	40-1	20,5
40	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	40-1	21
40	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	40-1	21,5
40	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	40-1	22
40	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	40-1	22,5
40	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	40-1	23
40	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	40-1	23,5
40	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	40-1	24
40	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	40-1	24,5
40	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	40-1	25
40	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	40-1	25,5
40	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	40-1	26
40	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	40-1	26,5
40	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	40-1	27
40	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	40-1	27,5
40	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	40-1	28
40	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	40-1	28,5
40	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	40-1	29
40	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	40-1	29,5
40	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	40-1	30
40	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	40-1	0

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	40-1	0,5
40	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	40-1	1
40	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	40-1	1,5
40	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	40-1	2
40	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	40-1	2,5
40	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	40-1	3
40	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	40-1	3,5
40	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	40-1	4
40	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	40-1	4,5
40	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	40-1	5
40	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	40-1	5,5
40	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	40-1	6
40	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	40-1	6,5
40	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	40-1	7
40	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	40-1	7,5
40	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	40-1	8
40	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	40-1	8,5
40	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	40-1	9
40	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	40-1	9,5
40	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	40-1	10
40	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	40-1	10,5
40	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	40-1	11
40	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	40-1	11,5
40	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	40-1	12
40	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	40-1	12,5
40	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	40-1	13
40	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	40-1	13,5
40	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	40-1	14
40	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	40-1	14,5
40	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	40-1	15
40	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	40-1	15
40	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	40-1	15,5
40	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	40-1	16
40	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	40-1	16,5
40	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	40-1	17
40	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	40-1	17,5
40	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	40-1	18
40	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	40-1	18,5
40	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	40-1	19
40	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	40-1	19,5
40	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	40-1	20
40	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	40-1	20,5
40	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	40-1	21
40	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	40-1	21,5
40	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	40-1	22
40	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	40-1	22,5
40	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	40-1	23
40	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	40-1	23,5
40	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	40-1	24
40	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	40-1	24,5
40	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	40-1	25
40	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	40-1	25,5
40	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	40-1	26
40	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	40-1	26,5
40	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	40-1	27
40	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	40-1	27,5
40	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	40-1	28
40	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	40-1	28,5
40	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	40-1	29

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	40-1	29,5
40	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	40-1	30
40	0	COMB5	Combination	0	-2628,462	-5,953	0	-29,495	7,503E-13	40-1	0
40	0,5	COMB5	Combination	0	-2542,695	-5,953	0	-26,518	1292,7892	40-1	0,5
40	1	COMB5	Combination	0	-2456,927	-5,953	0	-23,542	2542,6947	40-1	1
40	1,5	COMB5	Combination	0	-2371,16	-5,953	0	-20,565	3749,7165	40-1	1,5
40	2	COMB5	Combination	0	-2285,393	-5,953	0	-17,588	4913,8546	40-1	2
40	2,5	COMB5	Combination	0	-2199,625	-5,953	0	-14,612	6035,109	40-1	2,5
40	3	COMB5	Combination	0	-2113,858	-5,953	0	-11,635	7113,4798	40-1	3
40	3,5	COMB5	Combination	0	-2028,09	-5,953	0	-8,6582	8148,9668	40-1	3,5
40	4	COMB5	Combination	0	-1942,323	-5,953	0	-5,6815	9141,5701	40-1	4
40	4,5	COMB5	Combination	0	-1856,555	-5,953	0	-2,7048	10091,2896	40-1	4,5
40	5	COMB5	Combination	0	-1770,788	-5,953	0	0,2719	10998,1255	40-1	5
40	5,5	COMB5	Combination	0	-1685,021	-5,953	0	3,2486	11862,0777	40-1	5,5
40	6	COMB5	Combination	0	-1599,253	-5,953	0	6,2253	12683,1462	40-1	6
40	6,5	COMB5	Combination	0	-1513,486	-5,953	0	9,202	13461,331	40-1	6,5
40	7	COMB5	Combination	0	-1427,718	-5,953	0	12,1787	14196,6321	40-1	7
40	7,5	COMB5	Combination	0	-1341,951	-5,953	0	15,1554	14889,0495	40-1	7,5
40	8	COMB5	Combination	0	-1256,184	-5,953	0	18,1321	15538,5832	40-1	8
40	8,5	COMB5	Combination	0	-1170,416	-5,953	0	21,1088	16145,2331	40-1	8,5
40	9	COMB5	Combination	0	-1084,649	-5,953	0	24,0855	16708,9994	40-1	9
40	9,5	COMB5	Combination	0	-998,881	-5,953	0	27,0623	17229,882	40-1	9,5
40	10	COMB5	Combination	0	-913,114	-5,953	0	30,039	17707,8809	40-1	10
40	10,5	COMB5	Combination	0	-827,347	-5,953	0	33,0157	18142,996	40-1	10,5
40	11	COMB5	Combination	0	-741,579	-5,953	0	35,9924	18535,2275	40-1	11
40	11,5	COMB5	Combination	0	-655,812	-5,953	0	38,9691	18884,5753	40-1	11,5
40	12	COMB5	Combination	0	-570,044	-5,953	0	41,9458	19191,0393	40-1	12
40	12,5	COMB5	Combination	0	-484,277	-5,953	0	44,9225	19454,6197	40-1	12,5
40	13	COMB5	Combination	0	-398,51	-5,953	0	47,8992	19675,3164	40-1	13
40	13,5	COMB5	Combination	0	-312,742	-5,953	0	50,8759	19853,1293	40-1	13,5
40	14	COMB5	Combination	0	-226,975	-5,953	0	53,8526	19988,0586	40-1	14
40	14,5	COMB5	Combination	0	-141,207	-5,953	0	56,8293	20080,1041	40-1	14,5
40	15	COMB5	Combination	0	-55,44	-5,953	0	59,806	20129,266	40-1	15
40	15	COMB5	Combination	0	55,44	-5,953	0	-59,806	20129,266	40-1	15
40	15,5	COMB5	Combination	0	141,207	-5,953	0	-56,829	20080,1041	40-1	15,5
40	16	COMB5	Combination	0	226,975	-5,953	0	-53,853	19988,0586	40-1	16
40	16,5	COMB5	Combination	0	312,742	-5,953	0	-50,876	19853,1293	40-1	16,5
40	17	COMB5	Combination	0	398,51	-5,953	0	-47,899	19675,3164	40-1	17
40	17,5	COMB5	Combination	0	484,277	-5,953	0	-44,923	19454,6197	40-1	17,5
40	18	COMB5	Combination	0	570,044	-5,953	0	-41,946	19191,0393	40-1	18
40	18,5	COMB5	Combination	0	655,812	-5,953	0	-38,969	18884,5753	40-1	18,5
40	19	COMB5	Combination	0	741,579	-5,953	0	-35,992	18535,2275	40-1	19
40	19,5	COMB5	Combination	0	827,347	-5,953	0	-33,016	18142,996	40-1	19,5
40	20	COMB5	Combination	0	913,114	-5,953	0	-30,039	17707,8809	40-1	20
40	20,5	COMB5	Combination	0	998,881	-5,953	0	-27,062	17229,882	40-1	20,5
40	21	COMB5	Combination	0	1084,649	-5,953	0	-24,086	16708,9994	40-1	21
40	21,5	COMB5	Combination	0	1170,416	-5,953	0	-21,109	16145,2331	40-1	21,5
40	22	COMB5	Combination	0	1256,184	-5,953	0	-18,132	15538,5832	40-1	22
40	22,5	COMB5	Combination	0	1341,951	-5,953	0	-15,155	14889,0495	40-1	22,5
40	23	COMB5	Combination	0	1427,718	-5,953	0	-12,179	14196,6321	40-1	23
40	23,5	COMB5	Combination	0	1513,486	-5,953	0	-9,202	13461,331	40-1	23,5
40	24	COMB5	Combination	0	1599,253	-5,953	0	-6,2253	12683,1462	40-1	24
40	24,5	COMB5	Combination	0	1685,021	-5,953	0	-3,2486	11862,0777	40-1	24,5
40	25	COMB5	Combination	0	1770,788	-5,953	0	-0,2719	10998,1255	40-1	25
40	25,5	COMB5	Combination	0	1856,555	-5,953	0	2,7048	10091,2896	40-1	25,5
40	26	COMB5	Combination	0	1942,323	-5,953	0	5,6815	9141,5701	40-1	26
40	26,5	COMB5	Combination	0	2028,09	-5,953	0	8,6582	8148,9668	40-1	26,5
40	27	COMB5	Combination	0	2113,858	-5,953	0	11,6349	7113,4798	40-1	27
40	27,5	COMB5	Combination	0	2199,625	-5,953	0	14,6116	6035,109	40-1	27,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	28	COMB5	Combination	0	2285,393	-5,953	0	17,5883	4913,8546	40-1	28
40	28,5	COMB5	Combination	0	2371,16	-5,953	0	20,565	3749,7165	40-1	28,5
40	29	COMB5	Combination	0	2456,927	-5,953	0	23,5417	2542,6947	40-1	29
40	29,5	COMB5	Combination	0	2542,695	-5,953	0	26,5184	1292,7892	40-1	29,5
40	30	COMB5	Combination	0	2628,462	-5,953	0	29,4951	2,41E-12	40-1	30
40	0	COMB6	Combination	-314,3	-2583,858	-5,953	0	-29,495	27,9969	40-1	0
40	0,5	COMB6	Combination	-315,5	-2499,427	-5,953	0	-26,518	1298,8999	40-1	0,5
40	1	COMB6	Combination	-316,6	-2414,996	-5,953	0	-23,542	2527,508	40-1	1
40	1,5	COMB6	Combination	-317,8	-2330,566	-5,953	0	-20,565	3713,8213	40-1	1,5
40	2	COMB6	Combination	-318,8	-2246,186	-5,953	0	-17,588	4857,8752	40-1	2
40	2,5	COMB6	Combination	-319,8	-2161,806	-5,953	0	-14,612	5959,6775	40-1	2,5
40	3	COMB6	Combination	-320,8	-2077,426	-5,953	0	-11,635	7019,2282	40-1	3
40	3,5	COMB6	Combination	-321,8	-1993,077	-5,953	0	-8,6582	8036,5424	40-1	3,5
40	4	COMB6	Combination	-322,8	-1908,727	-5,953	0	-5,6815	9011,6282	40-1	4
40	4,5	COMB6	Combination	-323,8	-1824,378	-5,953	0	-2,7048	9944,4857	40-1	4,5
40	5	COMB6	Combination	-324,8	-1740,058	-5,953	0	0,2719	10835,1321	40-1	5
40	5,5	COMB6	Combination	-325,8	-1655,738	-5,953	0	3,2486	11683,5728	40-1	5,5
40	6	COMB6	Combination	-326,8	-1571,419	-5,953	0	6,2253	12489,808	40-1	6
40	6,5	COMB6	Combination	-327,8	-1487,128	-5,953	0	9,202	13253,8566	40-1	6,5
40	7	COMB6	Combination	-328,7	-1402,838	-5,953	0	12,1787	13975,7218	40-1	7
40	7,5	COMB6	Combination	-329,7	-1318,547	-5,953	0	15,1554	14655,4037	40-1	7,5
40	8	COMB6	Combination	-330,7	-1234,285	-5,953	0	18,1321	15292,9237	40-1	8
40	8,5	COMB6	Combination	-331,6	-1150,024	-5,953	0	21,1088	15888,2821	40-1	8,5
40	9	COMB6	Combination	-332,6	-1065,762	-5,953	0	24,0855	16441,479	40-1	9
40	9,5	COMB6	Combination	-333,5	-981,528	-5,953	0	27,0623	16952,5366	40-1	9,5
40	10	COMB6	Combination	-334,5	-897,294	-5,953	0	30,039	17421,4538	40-1	10
40	10,5	COMB6	Combination	-335,4	-813,061	-5,953	0	33,0157	17848,2306	40-1	10,5
40	11	COMB6	Combination	-336,3	-728,854	-5,953	0	35,9924	18232,8908	40-1	11
40	11,5	COMB6	Combination	-337,2	-644,647	-5,953	0	38,9691	18575,4312	40-1	11,5
40	12	COMB6	Combination	-338,2	-560,441	-5,953	0	41,9458	18875,8535	40-1	12
40	12,5	COMB6	Combination	-338,9	-476,264	-5,953	0	44,9225	19134,3129	40-1	12,5
40	13	COMB6	Combination	-339,7	-392,086	-5,953	0	47,8992	19350,6756	40-1	13
40	13,5	COMB6	Combination	-340,4	-307,909	-5,953	0	50,8759	19524,9503	40-1	13,5
40	14	COMB6	Combination	-339,7	-223,753	-5,953	0	53,8526	19658,5757	40-1	14
40	14,5	COMB6	Combination	-338,9	-139,596	-5,953	0	56,8293	19750,1257	40-1	14,5
40	15	COMB6	Combination	-338,2	-55,44	-5,953	0	59,806	19799,6004	40-1	15
40	15	COMB6	Combination	-338,2	55,44	-5,953	0	-59,806	19799,6004	40-1	15
40	15,5	COMB6	Combination	-338,9	139,596	-5,953	0	-56,829	19750,1257	40-1	15,5
40	16	COMB6	Combination	-339,7	223,753	-5,953	0	-53,853	19658,5757	40-1	16
40	16,5	COMB6	Combination	-340,4	307,909	-5,953	0	-50,876	19524,9503	40-1	16,5
40	17	COMB6	Combination	-339,7	392,086	-5,953	0	-47,899	19350,6756	40-1	17
40	17,5	COMB6	Combination	-338,9	476,264	-5,953	0	-44,923	19134,3129	40-1	17,5
40	18	COMB6	Combination	-338,2	560,441	-5,953	0	-41,946	18875,8535	40-1	18
40	18,5	COMB6	Combination	-337,2	644,647	-5,953	0	-38,969	18575,4312	40-1	18,5
40	19	COMB6	Combination	-336,3	728,854	-5,953	0	-35,992	18232,8908	40-1	19
40	19,5	COMB6	Combination	-335,4	813,061	-5,953	0	-33,016	17848,2306	40-1	19,5
40	20	COMB6	Combination	-334,5	897,294	-5,953	0	-30,039	17421,4538	40-1	20
40	20,5	COMB6	Combination	-333,5	981,528	-5,953	0	-27,062	16952,5366	40-1	20,5
40	21	COMB6	Combination	-332,6	1065,762	-5,953	0	-24,086	16441,479	40-1	21
40	21,5	COMB6	Combination	-331,6	1150,024	-5,953	0	-21,109	15888,2821	40-1	21,5
40	22	COMB6	Combination	-330,7	1234,285	-5,953	0	-18,132	15292,9237	40-1	22
40	22,5	COMB6	Combination	-329,7	1318,547	-5,953	0	-15,155	14655,4037	40-1	22,5
40	23	COMB6	Combination	-328,7	1402,838	-5,953	0	-12,179	13975,7218	40-1	23
40	23,5	COMB6	Combination	-327,8	1487,128	-5,953	0	-9,202	13253,8566	40-1	23,5
40	24	COMB6	Combination	-326,8	1571,419	-5,953	0	-6,2253	12489,808	40-1	24
40	24,5	COMB6	Combination	-325,8	1655,738	-5,953	0	-3,2486	11683,5728	40-1	24,5
40	25	COMB6	Combination	-324,8	1740,058	-5,953	0	-0,2719	10835,1321	40-1	25
40	25,5	COMB6	Combination	-323,8	1824,378	-5,953	0	2,7048	9944,4857	40-1	25,5
40	26	COMB6	Combination	-322,8	1908,727	-5,953	0	5,6815	9011,6282	40-1	26

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
40	26,5	COMB6	Combination	-321,8	1993,077	-5,953	0	8,6582	8036,5424	40-1	26,5
40	27	COMB6	Combination	-320,8	2077,426	-5,953	0	11,6349	7019,2282	40-1	27
40	27,5	COMB6	Combination	-319,8	2161,806	-5,953	0	14,6116	5959,6775	40-1	27,5
40	28	COMB6	Combination	-318,8	2246,186	-5,953	0	17,5883	4857,8752	40-1	28
40	28,5	COMB6	Combination	-317,8	2330,566	-5,953	0	20,565	3713,8213	40-1	28,5
40	29	COMB6	Combination	-316,6	2414,996	-5,953	0	23,5417	2527,508	40-1	29
40	29,5	COMB6	Combination	-315,5	2499,427	-5,953	0	26,5184	1298,8999	40-1	29,5
40	30	COMB6	Combination	-314,3	2583,858	-5,953	0	29,4951	27,9969	40-1	30
46	0	COMB1	Combination	0	-1676,567	0	0	0	1,273E-12	46-1	0
46	0,5	COMB1	Combination	0	-1620,681	0	0	0	824,3121	46-1	0,5
46	1	COMB1	Combination	0	-1564,796	0	0	0	1620,6813	46-1	1
46	1,5	COMB1	Combination	0	-1508,91	0	0	0	2389,1078	46-1	1,5
46	2	COMB1	Combination	0	-1453,025	0	0	0	3129,5915	46-1	2
46	2,5	COMB1	Combination	0	-1397,139	0	0	0	3842,1325	46-1	2,5
46	3	COMB1	Combination	0	-1341,254	0	0	0	4526,7306	46-1	3
46	3,5	COMB1	Combination	0	-1285,368	0	0	0	5183,386	46-1	3,5
46	4	COMB1	Combination	0	-1229,482	0	0	0	5812,0986	46-1	4
46	4,5	COMB1	Combination	0	-1173,597	0	0	0	6412,8684	46-1	4,5
46	5	COMB1	Combination	0	-1117,711	0	0	0	6985,6954	46-1	5
46	5,5	COMB1	Combination	0	-1061,826	0	0	0	7530,5796	46-1	5,5
46	6	COMB1	Combination	0	-1005,94	0	0	0	8047,5211	46-1	6
46	6,5	COMB1	Combination	0	-950,055	0	0	0	8536,5198	46-1	6,5
46	7	COMB1	Combination	0	-894,169	0	0	0	8997,5757	46-1	7
46	7,5	COMB1	Combination	0	-838,283	0	0	0	9430,6888	46-1	7,5
46	8	COMB1	Combination	0	-782,398	0	0	0	9835,8591	46-1	8
46	8,5	COMB1	Combination	0	-726,512	0	0	0	10213,0866	46-1	8,5
46	9	COMB1	Combination	0	-670,627	0	0	0	10562,3714	46-1	9
46	9,5	COMB1	Combination	0	-614,741	0	0	0	10883,7134	46-1	9,5
46	10	COMB1	Combination	0	-558,856	0	0	0	11177,1126	46-1	10
46	10,5	COMB1	Combination	0	-502,97	0	0	0	11442,569	46-1	10,5
46	11	COMB1	Combination	0	-447,085	0	0	0	11680,0827	46-1	11
46	11,5	COMB1	Combination	0	-391,199	0	0	0	11889,6535	46-1	11,5
46	12	COMB1	Combination	0	-335,313	0	0	0	12071,2816	46-1	12
46	12,5	COMB1	Combination	0	-279,428	0	0	0	12224,9669	46-1	12,5
46	13	COMB1	Combination	0	-223,542	0	0	0	12350,7094	46-1	13
46	13,5	COMB1	Combination	0	-167,657	0	0	0	12448,5092	46-1	13,5
46	14	COMB1	Combination	0	-111,771	0	0	0	12518,3661	46-1	14
46	14,5	COMB1	Combination	0	-55,886	0	0	0	12560,2803	46-1	14,5
46	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	46-1	15
46	15	COMB1	Combination	0	-7,311E-13	0	0	0	12574,2517	46-1	15
46	15,5	COMB1	Combination	0	55,886	0	0	0	12560,2803	46-1	15,5
46	16	COMB1	Combination	0	111,771	0	0	0	12518,3661	46-1	16
46	16,5	COMB1	Combination	0	167,657	0	0	0	12448,5092	46-1	16,5
46	17	COMB1	Combination	0	223,542	0	0	0	12350,7094	46-1	17
46	17,5	COMB1	Combination	0	279,428	0	0	0	12224,9669	46-1	17,5
46	18	COMB1	Combination	0	335,313	0	0	0	12071,2816	46-1	18
46	18,5	COMB1	Combination	0	391,199	0	0	0	11889,6535	46-1	18,5
46	19	COMB1	Combination	0	447,085	0	0	0	11680,0827	46-1	19
46	19,5	COMB1	Combination	0	502,97	0	0	0	11442,569	46-1	19,5
46	20	COMB1	Combination	0	558,856	0	0	0	11177,1126	46-1	20
46	20,5	COMB1	Combination	0	614,741	0	0	0	10883,7134	46-1	20,5
46	21	COMB1	Combination	0	670,627	0	0	0	10562,3714	46-1	21
46	21,5	COMB1	Combination	0	726,512	0	0	0	10213,0866	46-1	21,5
46	22	COMB1	Combination	0	782,398	0	0	0	9835,8591	46-1	22
46	22,5	COMB1	Combination	0	838,283	0	0	0	9430,6888	46-1	22,5
46	23	COMB1	Combination	0	894,169	0	0	0	8997,5757	46-1	23
46	23,5	COMB1	Combination	0	950,055	0	0	0	8536,5198	46-1	23,5
46	24	COMB1	Combination	0	1005,94	0	0	0	8047,5211	46-1	24
46	24,5	COMB1	Combination	0	1061,826	0	0	0	7530,5796	46-1	24,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	25	COMB1	Combination	0	1117,711	0	0	0	6985,6954	46-1	25
46	25,5	COMB1	Combination	0	1173,597	0	0	0	6412,8684	46-1	25,5
46	26	COMB1	Combination	0	1229,482	0	0	0	5812,0986	46-1	26
46	26,5	COMB1	Combination	0	1285,368	0	0	0	5183,386	46-1	26,5
46	27	COMB1	Combination	0	1341,254	0	0	0	4526,7306	46-1	27
46	27,5	COMB1	Combination	0	1397,139	0	0	0	3842,1325	46-1	27,5
46	28	COMB1	Combination	0	1453,025	0	0	0	3129,5915	46-1	28
46	28,5	COMB1	Combination	0	1508,91	0	0	0	2389,1078	46-1	28,5
46	29	COMB1	Combination	0	1564,796	0	0	0	1620,6813	46-1	29
46	29,5	COMB1	Combination	0	1620,681	0	0	0	824,3121	46-1	29,5
46	30	COMB1	Combination	0	1676,567	0	0	0	6,114E-12	46-1	30
46	0	COMB2	Combination	0	-1917,057	0	0	0	3,638E-13	46-1	0
46	0,5	COMB2	Combination	0	-1853,155	0	0	0	942,5532	46-1	0,5
46	1	COMB2	Combination	0	-1789,254	0	0	0	1853,1554	46-1	1
46	1,5	COMB2	Combination	0	-1725,352	0	0	0	2731,8067	46-1	1,5
46	2	COMB2	Combination	0	-1661,45	0	0	0	3578,507	46-1	2
46	2,5	COMB2	Combination	0	-1597,548	0	0	0	4393,2564	46-1	2,5
46	3	COMB2	Combination	0	-1533,646	0	0	0	5176,0548	46-1	3
46	3,5	COMB2	Combination	0	-1469,744	0	0	0	5926,9023	46-1	3,5
46	4	COMB2	Combination	0	-1405,842	0	0	0	6645,7988	46-1	4
46	4,5	COMB2	Combination	0	-1341,94	0	0	0	7332,7443	46-1	4,5
46	5	COMB2	Combination	0	-1278,038	0	0	0	7987,7389	46-1	5
46	5,5	COMB2	Combination	0	-1214,136	0	0	0	8610,7825	46-1	5,5
46	6	COMB2	Combination	0	-1150,234	0	0	0	9201,8752	46-1	6
46	6,5	COMB2	Combination	0	-1086,332	0	0	0	9761,0169	46-1	6,5
46	7	COMB2	Combination	0	-1022,431	0	0	0	10288,2077	46-1	7
46	7,5	COMB2	Combination	0	-958,529	0	0	0	10783,4475	46-1	7,5
46	8	COMB2	Combination	0	-894,627	0	0	0	11246,7364	46-1	8
46	8,5	COMB2	Combination	0	-830,725	0	0	0	11678,0743	46-1	8,5
46	9	COMB2	Combination	0	-766,823	0	0	0	12077,4612	46-1	9
46	9,5	COMB2	Combination	0	-702,921	0	0	0	12444,8972	46-1	9,5
46	10	COMB2	Combination	0	-639,019	0	0	0	12780,3822	46-1	10
46	10,5	COMB2	Combination	0	-575,117	0	0	0	13083,9163	46-1	10,5
46	11	COMB2	Combination	0	-511,215	0	0	0	13355,4994	46-1	11
46	11,5	COMB2	Combination	0	-447,313	0	0	0	13595,1316	46-1	11,5
46	12	COMB2	Combination	0	-383,411	0	0	0	13802,8128	46-1	12
46	12,5	COMB2	Combination	0	-319,51	0	0	0	13978,5431	46-1	12,5
46	13	COMB2	Combination	0	-255,608	0	0	0	14122,3224	46-1	13
46	13,5	COMB2	Combination	0	-191,706	0	0	0	14234,1507	46-1	13,5
46	14	COMB2	Combination	0	-127,804	0	0	0	14314,0281	46-1	14
46	14,5	COMB2	Combination	0	-63,902	0	0	0	14361,9545	46-1	14,5
46	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	46-1	15
46	15	COMB2	Combination	0	-6,267E-13	0	0	0	14377,93	46-1	15
46	15,5	COMB2	Combination	0	63,902	0	0	0	14361,9545	46-1	15,5
46	16	COMB2	Combination	0	127,804	0	0	0	14314,0281	46-1	16
46	16,5	COMB2	Combination	0	191,706	0	0	0	14234,1507	46-1	16,5
46	17	COMB2	Combination	0	255,608	0	0	0	14122,3224	46-1	17
46	17,5	COMB2	Combination	0	319,51	0	0	0	13978,5431	46-1	17,5
46	18	COMB2	Combination	0	383,411	0	0	0	13802,8128	46-1	18
46	18,5	COMB2	Combination	0	447,313	0	0	0	13595,1316	46-1	18,5
46	19	COMB2	Combination	0	511,215	0	0	0	13355,4994	46-1	19
46	19,5	COMB2	Combination	0	575,117	0	0	0	13083,9163	46-1	19,5
46	20	COMB2	Combination	0	639,019	0	0	0	12780,3822	46-1	20
46	20,5	COMB2	Combination	0	702,921	0	0	0	12444,8972	46-1	20,5
46	21	COMB2	Combination	0	766,823	0	0	0	12077,4612	46-1	21
46	21,5	COMB2	Combination	0	830,725	0	0	0	11678,0743	46-1	21,5
46	22	COMB2	Combination	0	894,627	0	0	0	11246,7364	46-1	22
46	22,5	COMB2	Combination	0	958,529	0	0	0	10783,4475	46-1	22,5
46	23	COMB2	Combination	0	1022,431	0	0	0	10288,2077	46-1	23

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	23,5	COMB2	Combination	0	1086,332	0	0	0	9761,0169	46-1	23,5
46	24	COMB2	Combination	0	1150,234	0	0	0	9201,8752	46-1	24
46	24,5	COMB2	Combination	0	1214,136	0	0	0	8610,7825	46-1	24,5
46	25	COMB2	Combination	0	1278,038	0	0	0	7987,7389	46-1	25
46	25,5	COMB2	Combination	0	1341,94	0	0	0	7332,7443	46-1	25,5
46	26	COMB2	Combination	0	1405,842	0	0	0	6645,7988	46-1	26
46	26,5	COMB2	Combination	0	1469,744	0	0	0	5926,9023	46-1	26,5
46	27	COMB2	Combination	0	1533,646	0	0	0	5176,0548	46-1	27
46	27,5	COMB2	Combination	0	1597,548	0	0	0	4393,2564	46-1	27,5
46	28	COMB2	Combination	0	1661,45	0	0	0	3578,507	46-1	28
46	28,5	COMB2	Combination	0	1725,352	0	0	0	2731,8067	46-1	28,5
46	29	COMB2	Combination	0	1789,254	0	0	0	1853,1554	46-1	29
46	29,5	COMB2	Combination	0	1853,155	0	0	0	942,5532	46-1	29,5
46	30	COMB2	Combination	0	1917,057	0	0	0	4,513E-12	46-1	30
46	0	COMB3	Combination	-314,3	-1392,453	0	0	0	27,9969	46-1	0
46	0,5	COMB3	Combination	-315,5	-1345,888	0	0	0	712,6639	46-1	0,5
46	1	COMB3	Combination	-316,6	-1299,323	0	0	0	1373,9687	46-1	1
46	1,5	COMB3	Combination	-317,8	-1252,757	0	0	0	2011,9114	46-1	1,5
46	2	COMB3	Combination	-318,8	-1206,243	0	0	0	2626,5276	46-1	2
46	2,5	COMB3	Combination	-319,8	-1159,729	0	0	0	3217,8249	46-1	2,5
46	3	COMB3	Combination	-320,8	-1113,214	0	0	0	3785,8033	46-1	3
46	3,5	COMB3	Combination	-321,8	-1066,73	0	0	0	4330,4779	46-1	3,5
46	4	COMB3	Combination	-322,8	-1020,246	0	0	0	4851,857	46-1	4
46	4,5	COMB3	Combination	-323,8	-973,762	0	0	0	5349,9404	46-1	4,5
46	5	COMB3	Combination	-324,8	-927,308	0	0	0	5824,7454	46-1	5
46	5,5	COMB3	Combination	-325,8	-880,854	0	0	0	6276,2776	46-1	5,5
46	6	COMB3	Combination	-326,8	-834,4	0	0	0	6704,537	46-1	6
46	6,5	COMB3	Combination	-327,8	-787,975	0	0	0	7109,5425	46-1	6,5
46	7	COMB3	Combination	-328,7	-741,55	0	0	0	7491,2974	46-1	7
46	7,5	COMB3	Combination	-329,7	-695,125	0	0	0	7849,8017	46-1	7,5
46	8	COMB3	Combination	-330,7	-648,728	0	0	0	8185,0769	46-1	8
46	8,5	COMB3	Combination	-331,6	-602,332	0	0	0	8497,1232	46-1	8,5
46	9	COMB3	Combination	-332,6	-555,936	0	0	0	8785,9408	46-1	9
46	9,5	COMB3	Combination	-333,5	-509,568	0	0	0	9051,5518	46-1	9,5
46	10	COMB3	Combination	-334,5	-463,199	0	0	0	9293,9551	46-1	10
46	10,5	COMB3	Combination	-335,4	-416,831	0	0	0	9513,1509	46-1	10,5
46	11	COMB3	Combination	-336,3	-370,49	0	0	0	9709,1628	46-1	11
46	11,5	COMB3	Combination	-337,2	-324,149	0	0	0	9881,9876	46-1	11,5
46	12	COMB3	Combination	-338,2	-277,808	0	0	0	10031,627	46-1	12
46	12,5	COMB3	Combination	-338,9	-231,496	0	0	0	10158,2362	46-1	12,5
46	13	COMB3	Combination	-339,7	-185,184	0	0	0	10261,6816	46-1	13
46	13,5	COMB3	Combination	-340,4	-138,872	0	0	0	10341,9717	46-1	13,5
46	14	COMB3	Combination	-339,7	-92,582	0	0	0	10400,5452	46-1	14
46	14,5	COMB3	Combination	-338,9	-46,291	0	0	0	10435,9761	46-1	14,5
46	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	46-1	15
46	15	COMB3	Combination	-338,2	-6,376E-13	0	0	0	10448,2645	46-1	15
46	15,5	COMB3	Combination	-338,9	46,291	0	0	0	10435,9761	46-1	15,5
46	16	COMB3	Combination	-339,7	92,582	0	0	0	10400,5452	46-1	16
46	16,5	COMB3	Combination	-340,4	138,872	0	0	0	10341,9717	46-1	16,5
46	17	COMB3	Combination	-339,7	185,184	0	0	0	10261,6816	46-1	17
46	17,5	COMB3	Combination	-338,9	231,496	0	0	0	10158,2362	46-1	17,5
46	18	COMB3	Combination	-338,2	277,808	0	0	0	10031,627	46-1	18
46	18,5	COMB3	Combination	-337,2	324,149	0	0	0	9881,9876	46-1	18,5
46	19	COMB3	Combination	-336,3	370,49	0	0	0	9709,1628	46-1	19
46	19,5	COMB3	Combination	-335,4	416,831	0	0	0	9513,1509	46-1	19,5
46	20	COMB3	Combination	-334,5	463,199	0	0	0	9293,9551	46-1	20
46	20,5	COMB3	Combination	-333,5	509,568	0	0	0	9051,5518	46-1	20,5
46	21	COMB3	Combination	-332,6	555,936	0	0	0	8785,9408	46-1	21
46	21,5	COMB3	Combination	-331,6	602,332	0	0	0	8497,1232	46-1	21,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	22	COMB3	Combination	-330,7	648,728	0	0	0	8185,0769	46-1	22
46	22,5	COMB3	Combination	-329,7	695,125	0	0	0	7849,8017	46-1	22,5
46	23	COMB3	Combination	-328,7	741,55	0	0	0	7491,2974	46-1	23
46	23,5	COMB3	Combination	-327,8	787,975	0	0	0	7109,5425	46-1	23,5
46	24	COMB3	Combination	-326,8	834,4	0	0	0	6704,537	46-1	24
46	24,5	COMB3	Combination	-325,8	880,854	0	0	0	6276,2776	46-1	24,5
46	25	COMB3	Combination	-324,8	927,308	0	0	0	5824,7454	46-1	25
46	25,5	COMB3	Combination	-323,8	973,762	0	0	0	5349,9404	46-1	25,5
46	26	COMB3	Combination	-322,8	1020,246	0	0	0	4851,857	46-1	26
46	26,5	COMB3	Combination	-321,8	1066,73	0	0	0	4330,4779	46-1	26,5
46	27	COMB3	Combination	-320,8	1113,214	0	0	0	3785,8033	46-1	27
46	27,5	COMB3	Combination	-319,8	1159,729	0	0	0	3217,8249	46-1	27,5
46	28	COMB3	Combination	-318,8	1206,243	0	0	0	2626,5276	46-1	28
46	28,5	COMB3	Combination	-317,8	1252,757	0	0	0	2011,9114	46-1	28,5
46	29	COMB3	Combination	-316,6	1299,323	0	0	0	1373,9687	46-1	29
46	29,5	COMB3	Combination	-315,5	1345,888	0	0	0	712,6639	46-1	29,5
46	30	COMB3	Combination	-314,3	1392,453	0	0	0	27,9969	46-1	30
46	0	COMB4	Combination	-314,3	-1872,453	0	0	0	27,9969	46-1	0
46	0,5	COMB4	Combination	-315,5	-1809,888	0	0	0	948,6639	46-1	0,5
46	1	COMB4	Combination	-316,6	-1747,323	0	0	0	1837,9687	46-1	1
46	1,5	COMB4	Combination	-317,8	-1684,757	0	0	0	2695,9114	46-1	1,5
46	2	COMB4	Combination	-318,8	-1622,243	0	0	0	3522,5276	46-1	2
46	2,5	COMB4	Combination	-319,8	-1559,729	0	0	0	4317,8249	46-1	2,5
46	3	COMB4	Combination	-320,8	-1497,214	0	0	0	5081,8033	46-1	3
46	3,5	COMB4	Combination	-321,8	-1434,73	0	0	0	5814,4779	46-1	3,5
46	4	COMB4	Combination	-322,8	-1372,246	0	0	0	6515,857	46-1	4
46	4,5	COMB4	Combination	-323,8	-1309,762	0	0	0	7185,9404	46-1	4,5
46	5	COMB4	Combination	-324,8	-1247,308	0	0	0	7824,7454	46-1	5
46	5,5	COMB4	Combination	-325,8	-1184,854	0	0	0	8432,2776	46-1	5,5
46	6	COMB4	Combination	-326,8	-1122,4	0	0	0	9008,537	46-1	6
46	6,5	COMB4	Combination	-327,8	-1059,975	0	0	0	9553,5425	46-1	6,5
46	7	COMB4	Combination	-328,7	-997,55	0	0	0	10067,2974	46-1	7
46	7,5	COMB4	Combination	-329,7	-935,125	0	0	0	10549,8017	46-1	7,5
46	8	COMB4	Combination	-330,7	-872,728	0	0	0	11001,0769	46-1	8
46	8,5	COMB4	Combination	-331,6	-810,332	0	0	0	11421,1232	46-1	8,5
46	9	COMB4	Combination	-332,6	-747,936	0	0	0	11809,9408	46-1	9
46	9,5	COMB4	Combination	-333,5	-685,568	0	0	0	12167,5518	46-1	9,5
46	10	COMB4	Combination	-334,5	-623,199	0	0	0	12493,9551	46-1	10
46	10,5	COMB4	Combination	-335,4	-560,831	0	0	0	12789,1509	46-1	10,5
46	11	COMB4	Combination	-336,3	-498,49	0	0	0	13053,1628	46-1	11
46	11,5	COMB4	Combination	-337,2	-436,149	0	0	0	13285,9876	46-1	11,5
46	12	COMB4	Combination	-338,2	-373,808	0	0	0	13487,627	46-1	12
46	12,5	COMB4	Combination	-338,9	-311,496	0	0	0	13658,2362	46-1	12,5
46	13	COMB4	Combination	-339,7	-249,184	0	0	0	13797,6816	46-1	13
46	13,5	COMB4	Combination	-340,4	-186,872	0	0	0	13905,9717	46-1	13,5
46	14	COMB4	Combination	-339,7	-124,582	0	0	0	13984,5452	46-1	14
46	14,5	COMB4	Combination	-338,9	-62,291	0	0	0	14031,9761	46-1	14,5
46	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	46-1	15
46	15	COMB4	Combination	-338,2	-6,376E-13	0	0	0	14048,2645	46-1	15
46	15,5	COMB4	Combination	-338,9	62,291	0	0	0	14031,9761	46-1	15,5
46	16	COMB4	Combination	-339,7	124,582	0	0	0	13984,5452	46-1	16
46	16,5	COMB4	Combination	-340,4	186,872	0	0	0	13905,9717	46-1	16,5
46	17	COMB4	Combination	-339,7	249,184	0	0	0	13797,6816	46-1	17
46	17,5	COMB4	Combination	-338,9	311,496	0	0	0	13658,2362	46-1	17,5
46	18	COMB4	Combination	-338,2	373,808	0	0	0	13487,627	46-1	18
46	18,5	COMB4	Combination	-337,2	436,149	0	0	0	13285,9876	46-1	18,5
46	19	COMB4	Combination	-336,3	498,49	0	0	0	13053,1628	46-1	19
46	19,5	COMB4	Combination	-335,4	560,831	0	0	0	12789,1509	46-1	19,5
46	20	COMB4	Combination	-334,5	623,199	0	0	0	12493,9551	46-1	20

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	20,5	COMB4	Combination	-333,5	685,568	0	0	0	12167,5518	46-1	20,5
46	21	COMB4	Combination	-332,6	747,936	0	0	0	11809,9408	46-1	21
46	21,5	COMB4	Combination	-331,6	810,332	0	0	0	11421,1232	46-1	21,5
46	22	COMB4	Combination	-330,7	872,728	0	0	0	11001,0769	46-1	22
46	22,5	COMB4	Combination	-329,7	935,125	0	0	0	10549,8017	46-1	22,5
46	23	COMB4	Combination	-328,7	997,55	0	0	0	10067,2974	46-1	23
46	23,5	COMB4	Combination	-327,8	1059,975	0	0	0	9553,5425	46-1	23,5
46	24	COMB4	Combination	-326,8	1122,4	0	0	0	9008,537	46-1	24
46	24,5	COMB4	Combination	-325,8	1184,854	0	0	0	8432,2776	46-1	24,5
46	25	COMB4	Combination	-324,8	1247,308	0	0	0	7824,7454	46-1	25
46	25,5	COMB4	Combination	-323,8	1309,762	0	0	0	7185,9404	46-1	25,5
46	26	COMB4	Combination	-322,8	1372,246	0	0	0	6515,857	46-1	26
46	26,5	COMB4	Combination	-321,8	1434,73	0	0	0	5814,4779	46-1	26,5
46	27	COMB4	Combination	-320,8	1497,214	0	0	0	5081,8033	46-1	27
46	27,5	COMB4	Combination	-319,8	1559,729	0	0	0	4317,8249	46-1	27,5
46	28	COMB4	Combination	-318,8	1622,243	0	0	0	3522,5276	46-1	28
46	28,5	COMB4	Combination	-317,8	1684,757	0	0	0	2695,9114	46-1	28,5
46	29	COMB4	Combination	-316,6	1747,323	0	0	0	1837,9687	46-1	29
46	29,5	COMB4	Combination	-315,5	1809,888	0	0	0	948,6639	46-1	29,5
46	30	COMB4	Combination	-314,3	1872,453	0	0	0	27,9969	46-1	30
46	0	COMB5	Combination	0	-2844,762	-21,061	0	-28,46	-2,728E-13	46-1	0
46	0,5	COMB5	Combination	0	-2751,785	-21,061	0	-25,518	1399,1367	46-1	0,5
46	1	COMB5	Combination	0	-2658,807	-21,061	0	-22,576	2751,7847	46-1	1
46	1,5	COMB5	Combination	0	-2565,83	-21,061	0	-19,634	4057,944	46-1	1,5
46	2	COMB5	Combination	0	-2472,853	-21,061	0	-16,691	5317,6146	46-1	2
46	2,5	COMB5	Combination	0	-2379,875	-21,061	0	-13,749	6530,7965	46-1	2,5
46	3	COMB5	Combination	0	-2286,898	-21,061	0	-10,807	7697,4898	46-1	3
46	3,5	COMB5	Combination	0	-2193,92	-21,061	0	-7,8647	8817,6943	46-1	3,5
46	4	COMB5	Combination	0	-2100,943	-21,061	0	-4,9225	9891,4101	46-1	4
46	4,5	COMB5	Combination	0	-2007,965	-21,061	0	-1,9803	10918,6371	46-1	4,5
46	5	COMB5	Combination	0	-1914,988	-21,061	0	0,9619	11899,3755	46-1	5
46	5,5	COMB5	Combination	0	-1822,011	-21,061	0	3,9041	12833,6252	46-1	5,5
46	6	COMB5	Combination	0	-1729,033	-21,061	0	6,8463	13721,3862	46-1	6
46	6,5	COMB5	Combination	0	-1636,056	-21,061	0	9,7885	14562,6585	46-1	6,5
46	7	COMB5	Combination	0	-1543,078	-21,061	0	12,7307	15357,4421	46-1	7
46	7,5	COMB5	Combination	0	-1450,101	-21,061	0	15,6729	16105,737	46-1	7,5
46	8	COMB5	Combination	0	-1357,124	-21,061	0	18,6151	16807,5432	46-1	8
46	8,5	COMB5	Combination	0	-1264,146	-21,061	0	21,5573	17462,8606	46-1	8,5
46	9	COMB5	Combination	0	-1171,169	-21,061	0	24,4995	18071,6894	46-1	9
46	9,5	COMB5	Combination	0	-1078,191	-21,061	0	27,4417	18634,0295	46-1	9,5
46	10	COMB5	Combination	0	-985,214	-21,061	0	30,384	19149,8809	46-1	10
46	10,5	COMB5	Combination	0	-892,237	-21,061	0	33,3262	19619,2435	46-1	10,5
46	11	COMB5	Combination	0	-799,259	-21,061	0	36,2684	20042,1175	46-1	11
46	11,5	COMB5	Combination	0	-706,282	-21,061	0	39,2106	20418,5028	46-1	11,5
46	12	COMB5	Combination	0	-613,304	-21,061	0	42,1528	20748,3993	46-1	12
46	12,5	COMB5	Combination	0	-520,327	-21,061	0	45,095	21031,8072	46-1	12,5
46	13	COMB5	Combination	0	-427,35	-21,061	0	48,0372	21268,7264	46-1	13
46	13,5	COMB5	Combination	0	-334,372	-21,061	0	50,9794	21459,1568	46-1	13,5
46	14	COMB5	Combination	0	-241,395	-21,061	0	53,9216	21603,0986	46-1	14
46	14,5	COMB5	Combination	0	-148,417	-21,061	0	56,8638	21700,5516	46-1	14,5
46	15	COMB5	Combination	0	-55,44	-21,061	0	59,806	21751,516	46-1	15
46	15	COMB5	Combination	0	55,44	-21,061	0	-59,806	21751,516	46-1	15
46	15,5	COMB5	Combination	0	148,417	-21,061	0	-56,864	21700,5516	46-1	15,5
46	16	COMB5	Combination	0	241,395	-21,061	0	-53,922	21603,0986	46-1	16
46	16,5	COMB5	Combination	0	334,372	-21,061	0	-50,979	21459,1568	46-1	16,5
46	17	COMB5	Combination	0	427,35	-21,061	0	-48,037	21268,7264	46-1	17
46	17,5	COMB5	Combination	0	520,327	-21,061	0	-45,095	21031,8072	46-1	17,5
46	18	COMB5	Combination	0	613,304	-21,061	0	-42,153	20748,3993	46-1	18
46	18,5	COMB5	Combination	0	706,282	-21,061	0	-39,211	20418,5028	46-1	18,5

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	19	COMB5	Combination	0	799,259	-21,061	0	-36,268	20042,1175	46-1	19
46	19,5	COMB5	Combination	0	892,237	-21,061	0	-33,326	19619,2435	46-1	19,5
46	20	COMB5	Combination	0	985,214	-21,061	0	-30,384	19149,8809	46-1	20
46	20,5	COMB5	Combination	0	1078,191	-21,061	0	-27,442	18634,0295	46-1	20,5
46	21	COMB5	Combination	0	1171,169	-21,061	0	-24,5	18071,6894	46-1	21
46	21,5	COMB5	Combination	0	1264,146	-21,061	0	-21,557	17462,8606	46-1	21,5
46	22	COMB5	Combination	0	1357,124	-21,061	0	-18,615	16807,5432	46-1	22
46	22,5	COMB5	Combination	0	1450,101	-21,061	0	-15,673	16105,737	46-1	22,5
46	23	COMB5	Combination	0	1543,078	-21,061	0	-12,731	15357,4421	46-1	23
46	23,5	COMB5	Combination	0	1636,056	-21,061	0	-9,7885	14562,6585	46-1	23,5
46	24	COMB5	Combination	0	1729,033	-21,061	0	-6,8463	13721,3862	46-1	24
46	24,5	COMB5	Combination	0	1822,011	-21,061	0	-3,9041	12833,6252	46-1	24,5
46	25	COMB5	Combination	0	1914,988	-21,061	0	-0,9619	11899,3755	46-1	25
46	25,5	COMB5	Combination	0	2007,965	-21,061	0	1,9803	10918,6371	46-1	25,5
46	26	COMB5	Combination	0	2100,943	-21,061	0	4,9225	9891,4101	46-1	26
46	26,5	COMB5	Combination	0	2193,92	-21,061	0	7,8647	8817,6943	46-1	26,5
46	27	COMB5	Combination	0	2286,898	-21,061	0	10,8069	7697,4898	46-1	27
46	27,5	COMB5	Combination	0	2379,875	-21,061	0	13,7491	6530,7965	46-1	27,5
46	28	COMB5	Combination	0	2472,853	-21,061	0	16,6913	5317,6146	46-1	28
46	28,5	COMB5	Combination	0	2565,83	-21,061	0	19,6335	4057,944	46-1	28,5
46	29	COMB5	Combination	0	2658,807	-21,061	0	22,5757	2751,7847	46-1	29
46	29,5	COMB5	Combination	0	2751,785	-21,061	0	25,5179	1399,1367	46-1	29,5
46	30	COMB5	Combination	0	2844,762	-21,061	0	28,4601	2,489E-11	46-1	30
46	0	COMB6	Combination	-314,3	-2800,158	-21,061	0	-28,46	27,9969	46-1	0
46	0,5	COMB6	Combination	-315,5	-2708,517	-21,061	0	-25,518	1405,2474	46-1	0,5
46	1	COMB6	Combination	-316,6	-2616,876	-21,061	0	-22,576	2736,598	46-1	1
46	1,5	COMB6	Combination	-317,8	-2525,236	-21,061	0	-19,634	4022,0488	46-1	1,5
46	2	COMB6	Combination	-318,8	-2433,646	-21,061	0	-16,691	5261,6352	46-1	2
46	2,5	COMB6	Combination	-319,8	-2342,056	-21,061	0	-13,749	6455,365	46-1	2,5
46	3	COMB6	Combination	-320,8	-2250,466	-21,061	0	-10,807	7603,2382	46-1	3
46	3,5	COMB6	Combination	-321,8	-2158,907	-21,061	0	-7,8647	8705,2699	46-1	3,5
46	4	COMB6	Combination	-322,8	-2067,347	-21,061	0	-4,9225	9761,4682	46-1	4
46	4,5	COMB6	Combination	-323,8	-1975,788	-21,061	0	-1,9803	10771,8332	46-1	4,5
46	5	COMB6	Combination	-324,8	-1884,258	-21,061	0	0,9619	11736,3821	46-1	5
46	5,5	COMB6	Combination	-325,8	-1792,728	-21,061	0	3,9041	12655,1203	46-1	5,5
46	6	COMB6	Combination	-326,8	-1701,199	-21,061	0	6,8463	13528,048	46-1	6
46	6,5	COMB6	Combination	-327,8	-1609,698	-21,061	0	9,7885	14355,1841	46-1	6,5
46	7	COMB6	Combination	-328,7	-1518,198	-21,061	0	12,7307	15136,5318	46-1	7
46	7,5	COMB6	Combination	-329,7	-1426,697	-21,061	0	15,6729	15872,0912	46-1	7,5
46	8	COMB6	Combination	-330,7	-1335,225	-21,061	0	18,6151	16561,8837	46-1	8
46	8,5	COMB6	Combination	-331,6	-1243,754	-21,061	0	21,5573	17205,9096	46-1	8,5
46	9	COMB6	Combination	-332,6	-1152,282	-21,061	0	24,4995	17804,169	46-1	9
46	9,5	COMB6	Combination	-333,5	-1060,838	-21,061	0	27,4417	18356,6841	46-1	9,5
46	10	COMB6	Combination	-334,5	-969,394	-21,061	0	30,384	18863,4538	46-1	10
46	10,5	COMB6	Combination	-335,4	-877,951	-21,061	0	33,3262	19324,4781	46-1	10,5
46	11	COMB6	Combination	-336,3	-786,534	-21,061	0	36,2684	19739,7808	46-1	11
46	11,5	COMB6	Combination	-337,2	-695,117	-21,061	0	39,2106	20109,3587	46-1	11,5
46	12	COMB6	Combination	-338,2	-603,701	-21,061	0	42,1528	20433,2135	46-1	12
46	12,5	COMB6	Combination	-338,9	-512,314	-21,061	0	45,095	20711,5004	46-1	12,5
46	13	COMB6	Combination	-339,7	-420,926	-21,061	0	48,0372	20944,0856	46-1	13
46	13,5	COMB6	Combination	-340,4	-329,539	-21,061	0	50,9794	21130,9778	46-1	13,5
46	14	COMB6	Combination	-339,7	-238,173	-21,061	0	53,9216	21273,6157	46-1	14
46	14,5	COMB6	Combination	-338,9	-146,806	-21,061	0	56,8638	21370,5732	46-1	14,5
46	15	COMB6	Combination	-338,2	-55,44	-21,061	0	59,806	21421,8504	46-1	15
46	15	COMB6	Combination	-338,2	55,44	-21,061	0	-59,806	21421,8504	46-1	15
46	15,5	COMB6	Combination	-338,9	146,806	-21,061	0	-56,864	21370,5732	46-1	15,5
46	16	COMB6	Combination	-339,7	238,173	-21,061	0	-53,922	21273,6157	46-1	16
46	16,5	COMB6	Combination	-340,4	329,539	-21,061	0	-50,979	21130,9778	46-1	16,5
46	17	COMB6	Combination	-339,7	420,926	-21,061	0	-48,037	20944,0856	46-1	17

TABLE: Element Forces - Frames											
Frame	Station	OutputCase	CaseType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
46	17,5	COMB6	Combination	-338,9	512,314	-21,061	0	-45,095	20711,5004	46-1	17,5
46	18	COMB6	Combination	-338,2	603,701	-21,061	0	-42,153	20433,2135	46-1	18
46	18,5	COMB6	Combination	-337,2	695,117	-21,061	0	-39,211	20109,3587	46-1	18,5
46	19	COMB6	Combination	-336,3	786,534	-21,061	0	-36,268	19739,7808	46-1	19
46	19,5	COMB6	Combination	-335,4	877,951	-21,061	0	-33,326	19324,4781	46-1	19,5
46	20	COMB6	Combination	-334,5	969,394	-21,061	0	-30,384	18863,4538	46-1	20
46	20,5	COMB6	Combination	-333,5	1060,838	-21,061	0	-27,442	18356,6841	46-1	20,5
46	21	COMB6	Combination	-332,6	1152,282	-21,061	0	-24,5	17804,169	46-1	21
46	21,5	COMB6	Combination	-331,6	1243,754	-21,061	0	-21,557	17205,9096	46-1	21,5
46	22	COMB6	Combination	-330,7	1335,225	-21,061	0	-18,615	16561,8837	46-1	22
46	22,5	COMB6	Combination	-329,7	1426,697	-21,061	0	-15,673	15872,0912	46-1	22,5
46	23	COMB6	Combination	-328,7	1518,198	-21,061	0	-12,731	15136,5318	46-1	23
46	23,5	COMB6	Combination	-327,8	1609,698	-21,061	0	-9,7885	14355,1841	46-1	23,5
46	24	COMB6	Combination	-326,8	1701,199	-21,061	0	-6,8463	13528,048	46-1	24
46	24,5	COMB6	Combination	-325,8	1792,728	-21,061	0	-3,9041	12655,1203	46-1	24,5
46	25	COMB6	Combination	-324,8	1884,258	-21,061	0	-0,9619	11736,3821	46-1	25
46	25,5	COMB6	Combination	-323,8	1975,788	-21,061	0	1,9803	10771,8332	46-1	25,5
46	26	COMB6	Combination	-322,8	2067,347	-21,061	0	4,9225	9761,4682	46-1	26
46	26,5	COMB6	Combination	-321,8	2158,907	-21,061	0	7,8647	8705,2699	46-1	26,5
46	27	COMB6	Combination	-320,8	2250,466	-21,061	0	10,8069	7603,2382	46-1	27
46	27,5	COMB6	Combination	-319,8	2342,056	-21,061	0	13,7491	6455,365	46-1	27,5
46	28	COMB6	Combination	-318,8	2433,646	-21,061	0	16,6913	5261,6352	46-1	28
46	28,5	COMB6	Combination	-317,8	2525,236	-21,061	0	19,6335	4022,0488	46-1	28,5
46	29	COMB6	Combination	-316,6	2616,876	-21,061	0	22,5757	2736,598	46-1	29
46	29,5	COMB6	Combination	-315,5	2708,517	-21,061	0	25,5179	1405,2474	46-1	29,5
46	30	COMB6	Combination	-314,3	2800,158	-21,061	0	28,4601	27,9969	46-1	30

TABLE: Joint Displacements								
Joint	OutputCase	CaseType	U1	U2	U3	R1	R2	R3
Text	Text	Text	m	m	m	Radians	Radians	Radians
1	COMB1	Combination	0	0	0	0	0,011974	0
1	COMB2	Combination	0	0	0	0	0,013691	0
1	COMB3	Combination	0	0	0	0	0,009968	0
1	COMB4	Combination	0	0	0	0	0,013396	0
1	COMB5	Combination	0	0	0	0	0,020515	0
1	COMB6	Combination	0	0	0	0	0,020219	0
2	COMB1	Combination	0	0	0	0	-0,011974	0
2	COMB2	Combination	0	0	0	0	-0,013691	0
2	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
2	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
2	COMB5	Combination	0	0	0	0	-0,020515	0
2	COMB6	Combination	-0,0004	0	0	0	-0,020219	0
3	COMB1	Combination	0	0	0	0	0,011974	0
3	COMB2	Combination	0	0	0	0	0,013691	0
3	COMB3	Combination	0	0	0	0	0,009968	0
3	COMB4	Combination	0	0	0	0	0,013396	0
3	COMB5	Combination	0	0	0	0	0,01897	0
3	COMB6	Combination	0	0	0	0	0,018675	0
4	COMB1	Combination	0	0	0	0	-0,011974	0
4	COMB2	Combination	0	0	0	0	-0,013691	0
4	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
4	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
4	COMB5	Combination	0	0	0	0	-0,01897	0
4	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
5	COMB1	Combination	0	0	0	0	0,011974	0
5	COMB2	Combination	0	0	0	0	0,013691	0
5	COMB3	Combination	0	0	0	0	0,009968	0
5	COMB4	Combination	0	0	0	0	0,013396	0
5	COMB5	Combination	0	0	0	0	0,01897	0
5	COMB6	Combination	0	0	0	0	0,018675	0
6	COMB1	Combination	0	0	0	0	-0,011974	0
6	COMB2	Combination	0	0	0	0	-0,013691	0
6	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
6	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
6	COMB5	Combination	0	0	0	0	-0,01897	0
6	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
7	COMB1	Combination	0	0	0	0	0,011974	0

7	COMB2	Combination	0	0	0	0	0,013691	0
7	COMB3	Combination	0	0	0	0	0,009968	0
7	COMB4	Combination	0	0	0	0	0,013396	0
7	COMB5	Combination	0	0	0	0	0,01897	0
7	COMB6	Combination	0	0	0	0	0,018675	0
8	COMB1	Combination	0	0	0	0	-0,011974	0
8	COMB2	Combination	0	0	0	0	-0,013691	0
8	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
8	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
8	COMB5	Combination	0	0	0	0	-0,01897	0
8	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
9	COMB1	Combination	0	0	0	0	0,011974	0
9	COMB2	Combination	0	0	0	0	0,013691	0
9	COMB3	Combination	0	0	0	0	0,009968	0
9	COMB4	Combination	0	0	0	0	0,013396	0
9	COMB5	Combination	0	0	0	0	0,01897	0
9	COMB6	Combination	0	0	0	0	0,018675	0
10	COMB1	Combination	0	0	0	0	-0,011974	0
10	COMB2	Combination	0	0	0	0	-0,013691	0
10	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
10	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
10	COMB5	Combination	0	0	0	0	-0,01897	0
10	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
11	COMB1	Combination	0	0	0	0	0,011974	0
11	COMB2	Combination	0	0	0	0	0,013691	0
11	COMB3	Combination	0	0	0	0	0,009968	0
11	COMB4	Combination	0	0	0	0	0,013396	0
11	COMB5	Combination	0	0	0	0	0,01897	0
11	COMB6	Combination	0	0	0	0	0,018675	0
12	COMB1	Combination	0	0	0	0	-0,011974	0
12	COMB2	Combination	0	0	0	0	-0,013691	0
12	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
12	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
12	COMB5	Combination	0	0	0	0	-0,01897	0
12	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
13	COMB1	Combination	0	0	0	0	0,011974	0
13	COMB2	Combination	0	0	0	0	0,013691	0
13	COMB3	Combination	0	0	0	0	0,009968	0
13	COMB4	Combination	0	0	0	0	0,013396	0
13	COMB5	Combination	0	0	0	0	0,01897	0
13	COMB6	Combination	0	0	0	0	0,018675	0
14	COMB1	Combination	0	0	0	0	-0,011974	0
14	COMB2	Combination	0	0	0	0	-0,013691	0
14	COMB3	Combination	-0,0004	0	0	0	-0,009968	0

14	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
14	COMB5	Combination	0	0	0	0	-0,01897	0
14	COMB6	Combination	-0,0004	0	0	0	-0,018675	0
15	COMB1	Combination	0	0	0	0	0,011974	0
15	COMB2	Combination	0	0	0	0	0,013691	0
15	COMB3	Combination	0	0	0	0	0,009968	0
15	COMB4	Combination	0	0	0	0	0,013396	0
15	COMB5	Combination	0	0	0	0	0,020515	0
15	COMB6	Combination	0	0	0	0	0,020219	0
16	COMB1	Combination	0	0	0	0	-0,011974	0
16	COMB2	Combination	0	0	0	0	-0,013691	0
16	COMB3	Combination	-0,0004	0	0	0	-0,009968	0
16	COMB4	Combination	-0,0004	0	0	0	-0,013396	0
16	COMB5	Combination	0	0	0	0	-0,020515	0
16	COMB6	Combination	-0,0004	0	0	0	-0,020219	0

TABLE: Joint Reactions								
Joint	OutputCase	CaseType	F1	F2	F3	M1	M2	M3
Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1	COMB5	Combination	0	-21,061	2844,762	0	0	0
1	COMB6	Combination	5,684E-14	-21,061	2844,762	0	0	0
2	COMB5	Combination	0	0	2844,762	0	0	0
2	COMB6	Combination	0	0	2844,762	0	0	0
15	COMB5	Combination	0	-21,061	2844,762	0	0	0
15	COMB6	Combination	5,684E-14	-21,061	2844,762	0	0	0
16	COMB5	Combination	0	0	2844,762	0	0	0
16	COMB6	Combination	0	0	2844,762	0	0	0
3	COMB5	Combination	0	-5,953	2628,462	0	0	0
3	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
4	COMB5	Combination	0	0	2628,462	0	0	0
4	COMB6	Combination	0	0	2628,462	0	0	0
5	COMB5	Combination	0	-5,953	2628,462	0	0	0
5	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
6	COMB5	Combination	0	0	2628,462	0	0	0
6	COMB6	Combination	0	0	2628,462	0	0	0
7	COMB5	Combination	0	-5,953	2628,462	0	0	0
7	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
8	COMB5	Combination	0	0	2628,462	0	0	0
8	COMB6	Combination	0	0	2628,462	0	0	0
9	COMB5	Combination	0	-5,953	2628,462	0	0	0
9	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
10	COMB5	Combination	0	0	2628,462	0	0	0
10	COMB6	Combination	0	0	2628,462	0	0	0
11	COMB5	Combination	0	-5,953	2628,462	0	0	0
11	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
12	COMB5	Combination	0	0	2628,462	0	0	0
12	COMB6	Combination	0	0	2628,462	0	0	0
13	COMB5	Combination	0	-5,953	2628,462	0	0	0
13	COMB6	Combination	5,684E-14	-5,953	2628,462	0	0	0
14	COMB5	Combination	0	0	2628,462	0	0	0
14	COMB6	Combination	0	0	2628,462	0	0	0
1	COMB2	Combination	0	0	1917,057	0	0	0
1	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
2	COMB2	Combination	0	0	1917,057	0	0	0
2	COMB4	Combination	0	0	1917,057	0	0	0
3	COMB2	Combination	0	0	1917,057	0	0	0

3	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
4	COMB2	Combination	0	0	1917,057	0	0	0
4	COMB4	Combination	0	0	1917,057	0	0	0
5	COMB2	Combination	0	0	1917,057	0	0	0
5	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
6	COMB2	Combination	0	0	1917,057	0	0	0
6	COMB4	Combination	0	0	1917,057	0	0	0
7	COMB2	Combination	0	0	1917,057	0	0	0
7	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
8	COMB2	Combination	0	0	1917,057	0	0	0
8	COMB4	Combination	0	0	1917,057	0	0	0
9	COMB2	Combination	0	0	1917,057	0	0	0
9	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
10	COMB2	Combination	0	0	1917,057	0	0	0
10	COMB4	Combination	0	0	1917,057	0	0	0
11	COMB2	Combination	0	0	1917,057	0	0	0
11	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
12	COMB2	Combination	0	0	1917,057	0	0	0
12	COMB4	Combination	0	0	1917,057	0	0	0
13	COMB2	Combination	0	0	1917,057	0	0	0
13	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
14	COMB2	Combination	0	0	1917,057	0	0	0
14	COMB4	Combination	0	0	1917,057	0	0	0
15	COMB2	Combination	0	0	1917,057	0	0	0
15	COMB4	Combination	5,684E-14	0	1917,057	0	0	0
16	COMB2	Combination	0	0	1917,057	0	0	0
16	COMB4	Combination	0	0	1917,057	0	0	0
1	COMB1	Combination	0	0	1676,567	0	0	0
2	COMB1	Combination	0	0	1676,567	0	0	0
3	COMB1	Combination	0	0	1676,567	0	0	0
4	COMB1	Combination	0	0	1676,567	0	0	0
5	COMB1	Combination	0	0	1676,567	0	0	0
6	COMB1	Combination	0	0	1676,567	0	0	0
7	COMB1	Combination	0	0	1676,567	0	0	0
8	COMB1	Combination	0	0	1676,567	0	0	0
9	COMB1	Combination	0	0	1676,567	0	0	0
10	COMB1	Combination	0	0	1676,567	0	0	0
11	COMB1	Combination	0	0	1676,567	0	0	0
12	COMB1	Combination	0	0	1676,567	0	0	0
13	COMB1	Combination	0	0	1676,567	0	0	0
14	COMB1	Combination	0	0	1676,567	0	0	0
15	COMB1	Combination	0	0	1676,567	0	0	0
16	COMB1	Combination	0	0	1676,567	0	0	0
1	COMB3	Combination	5,684E-14	0	1437,057	0	0	0

2	COMB3	Combination	0	0	1437,057	0	0	0
3	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
4	COMB3	Combination	0	0	1437,057	0	0	0
5	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
6	COMB3	Combination	0	0	1437,057	0	0	0
7	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
8	COMB3	Combination	0	0	1437,057	0	0	0
9	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
10	COMB3	Combination	0	0	1437,057	0	0	0
11	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
12	COMB3	Combination	0	0	1437,057	0	0	0
13	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
14	COMB3	Combination	0	0	1437,057	0	0	0
15	COMB3	Combination	5,684E-14	0	1437,057	0	0	0
16	COMB3	Combination	0	0	1437,057	0	0	0

TABLE: Joint Reactions (Kombo Jembatan)								
Joint	OutputCase	CaseType	F1	F2	F3	M1	M2	M3
Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1	COMB5	Com	0	-21,061	2844,762	0	0	0
1	COMB6	Com	5,684E-14	-21,061	2844,762	0	0	0
2	COMB5	Com	0	0	2844,762	0	0	0
2	COMB6	Com	0	0	2844,762	0	0	0
15	COMB5	Com	0	-21,061	2844,762	0	0	0
15	COMB6	Com	5,684E-14	-21,061	2844,762	0	0	0
16	COMB5	Com	0	0	2844,762	0	0	0
16	COMB6	Com	0	0	2844,762	0	0	0
3	COMB5	Com	0	-5,953	2628,462	0	0	0
3	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
4	COMB5	Com	0	0	2628,462	0	0	0
4	COMB6	Com	0	0	2628,462	0	0	0
5	COMB5	Com	0	-5,953	2628,462	0	0	0
5	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
6	COMB5	Com	0	0	2628,462	0	0	0
6	COMB6	Com	0	0	2628,462	0	0	0
7	COMB5	Com	0	-5,953	2628,462	0	0	0
7	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
8	COMB5	Com	0	0	2628,462	0	0	0
8	COMB6	Com	0	0	2628,462	0	0	0
9	COMB5	Com	0	-5,953	2628,462	0	0	0
9	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
10	COMB5	Com	0	0	2628,462	0	0	0
10	COMB6	Com	0	0	2628,462	0	0	0
11	COMB5	Com	0	-5,953	2628,462	0	0	0
11	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
12	COMB5	Com	0	0	2628,462	0	0	0
12	COMB6	Com	0	0	2628,462	0	0	0
13	COMB5	Com	0	-5,953	2628,462	0	0	0
13	COMB6	Com	5,684E-14	-5,953	2628,462	0	0	0
14	COMB5	Com	0	0	2628,462	0	0	0
14	COMB6	Com	0	0	2628,462	0	0	0
1	COMB2	Com	0	0	1917,057	0	0	0
1	COMB4	Com	5,684E-14	0	1917,057	0	0	0
2	COMB2	Com	0	0	1917,057	0	0	0
2	COMB4	Com	0	0	1917,057	0	0	0
3	COMB2	Com	0	0	1917,057	0	0	0
3	COMB4	Com	5,684E-14	0	1917,057	0	0	0

4	COMB2	Com	0	0	1917,057	0	0	0
4	COMB4	Com	0	0	1917,057	0	0	0
5	COMB2	Com	0	0	1917,057	0	0	0
5	COMB4	Com	5,684E-14	0	1917,057	0	0	0
6	COMB2	Com	0	0	1917,057	0	0	0
6	COMB4	Com	0	0	1917,057	0	0	0
7	COMB2	Com	0	0	1917,057	0	0	0
7	COMB4	Com	5,684E-14	0	1917,057	0	0	0
8	COMB2	Com	0	0	1917,057	0	0	0
8	COMB4	Com	0	0	1917,057	0	0	0
9	COMB2	Com	0	0	1917,057	0	0	0
9	COMB4	Com	5,684E-14	0	1917,057	0	0	0
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11	COMB2	Com	0	0	1917,057	0	0	0
11	COMB4	Com	5,684E-14	0	1917,057	0	0	0
12	COMB2	Com	0	0	1917,057	0	0	0
12	COMB4	Com	0	0	1917,057	0	0	0
13	COMB2	Com	0	0	1917,057	0	0	0
13	COMB4	Com	5,684E-14	0	1917,057	0	0	0
14	COMB2	Com	0	0	1917,057	0	0	0
14	COMB4	Com	0	0	1917,057	0	0	0
15	COMB2	Com	0	0	1917,057	0	0	0
15	COMB4	Com	5,684E-14	0	1917,057	0	0	0
16	COMB2	Com	0	0	1917,057	0	0	0
16	COMB4	Com	0	0	1917,057	0	0	0
1	COMB1	Com	0	0	1676,567	0	0	0
2	COMB1	Com	0	0	1676,567	0	0	0
3	COMB1	Com	0	0	1676,567	0	0	0
4	COMB1	Com	0	0	1676,567	0	0	0
5	COMB1	Com	0	0	1676,567	0	0	0
6	COMB1	Com	0	0	1676,567	0	0	0
7	COMB1	Com	0	0	1676,567	0	0	0
8	COMB1	Com	0	0	1676,567	0	0	0
9	COMB1	Com	0	0	1676,567	0	0	0
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11	COMB1	Com	0	0	1676,567	0	0	0
12	COMB1	Com	0	0	1676,567	0	0	0
13	COMB1	Com	0	0	1676,567	0	0	0
14	COMB1	Com	0	0	1676,567	0	0	0
15	COMB1	Com	0	0	1676,567	0	0	0
16	COMB1	Com	0	0	1676,567	0	0	0
1	COMB3	Com	5,684E-14	0	1437,057	0	0	0
2	COMB3	Com	0	0	1437,057	0	0	0

3	COMB3	Com	5,684E-14	0	1437,057	0	0	0
4	COMB3	Com	0	0	1437,057	0	0	0
5	COMB3	Com	5,684E-14	0	1437,057	0	0	0
6	COMB3	Com	0	0	1437,057	0	0	0
7	COMB3	Com	5,684E-14	0	1437,057	0	0	0
8	COMB3	Com	0	0	1437,057	0	0	0
9	COMB3	Com	5,684E-14	0	1437,057	0	0	0
10	COMB3	Com	0	0	1437,057	0	0	0
11	COMB3	Com	5,684E-14	0	1437,057	0	0	0
12	COMB3	Com	0	0	1437,057	0	0	0
13	COMB3	Com	5,684E-14	0	1437,057	0	0	0
14	COMB3	Com	0	0	1437,057	0	0	0
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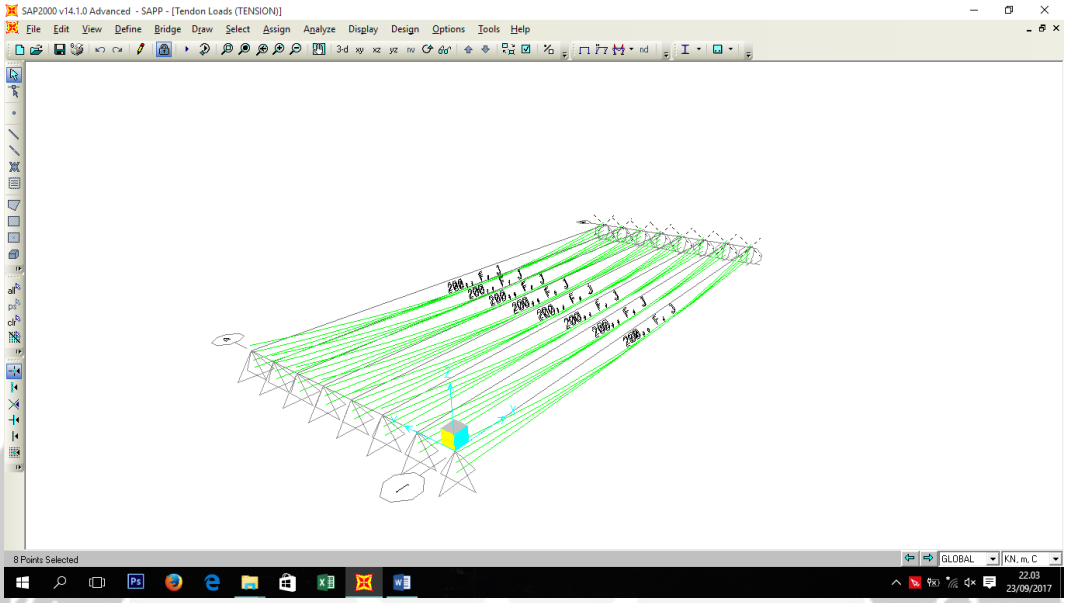
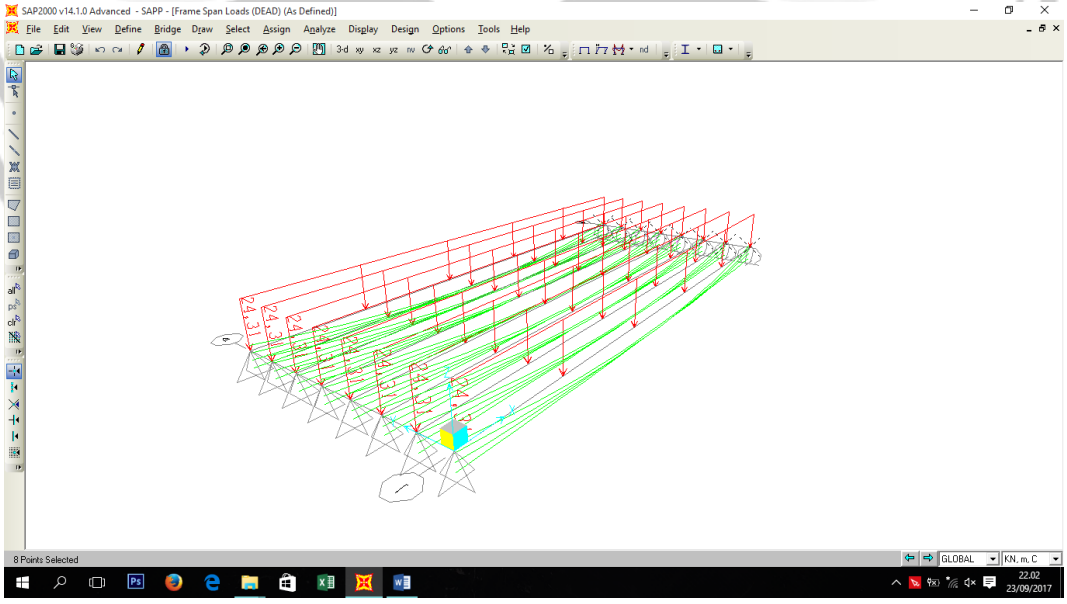
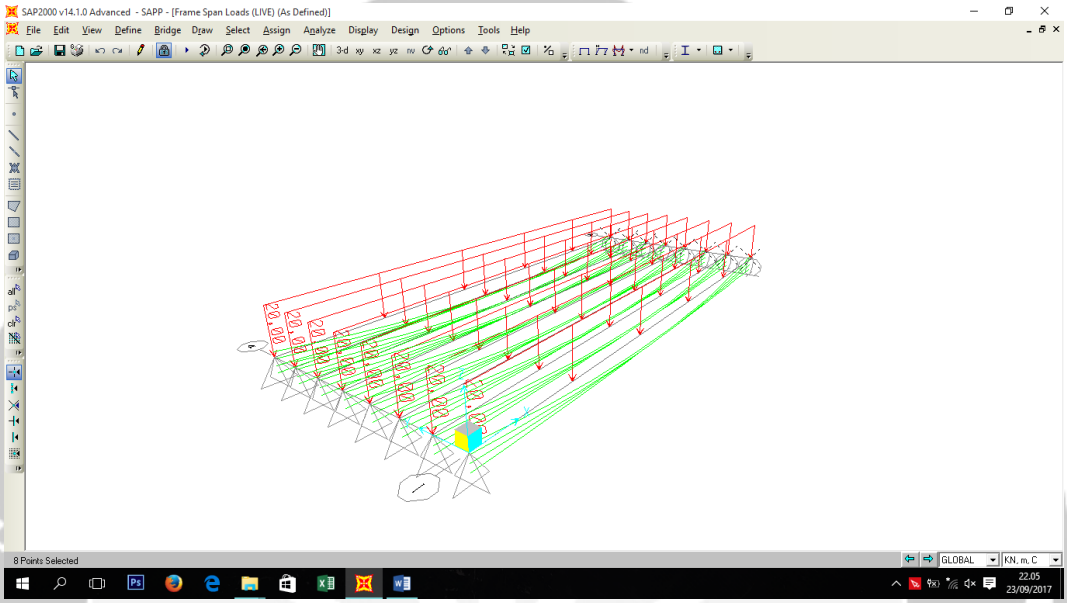


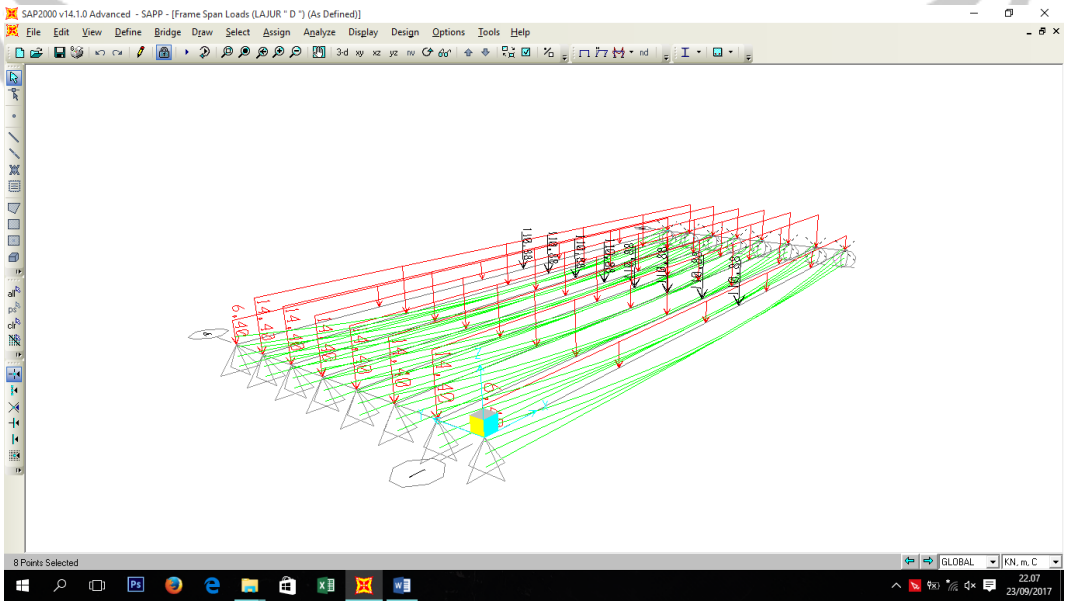
Gambar.1. Tendon Load Beton Prategang Bentang 30 m



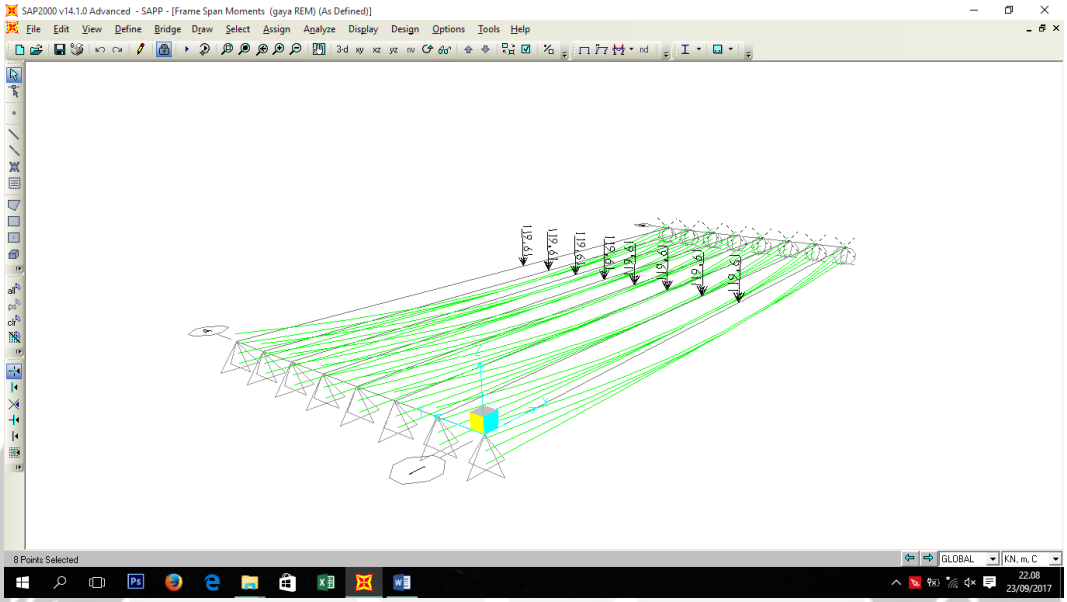
Gambar.2. Beban Dead Load / Berat Sendiri Beton Prategang



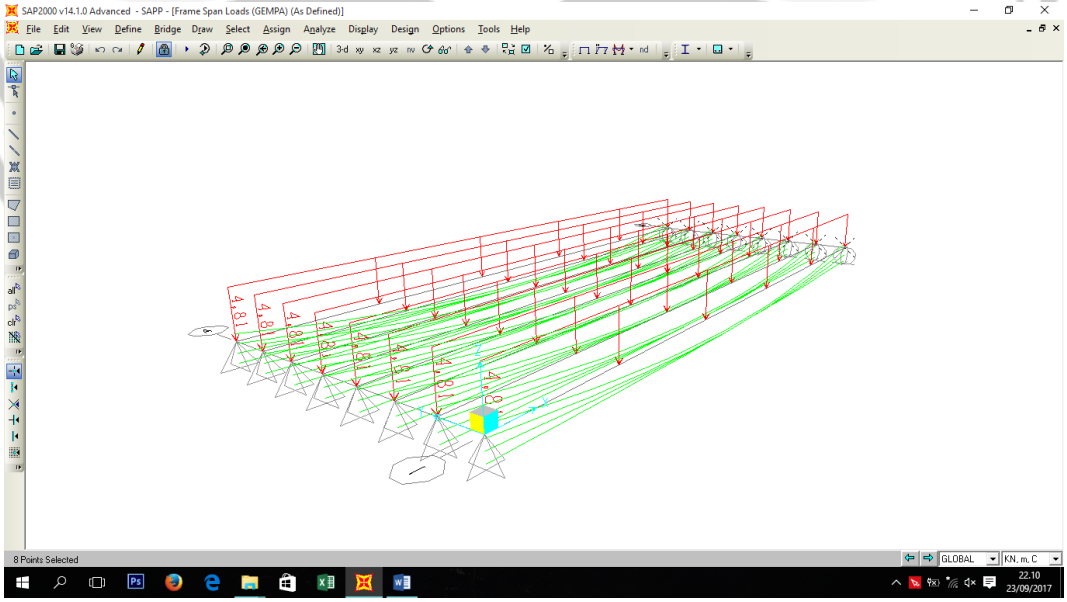
Gambar.3. Beban Live Load / Beban Kendaraan + Pedestrian Jalan



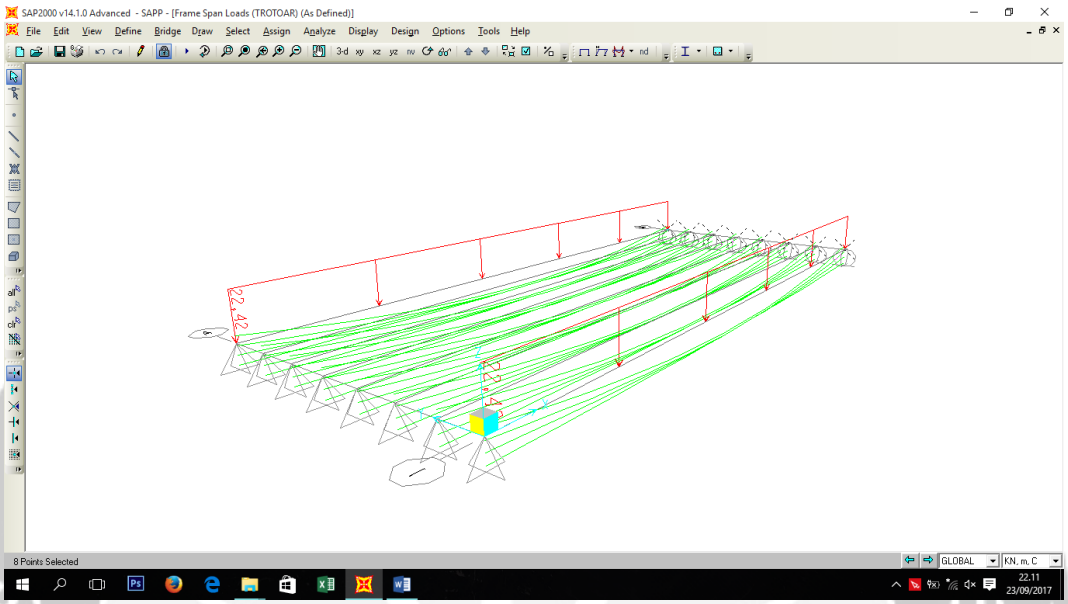
Gambar.4. Beban Laur “D”



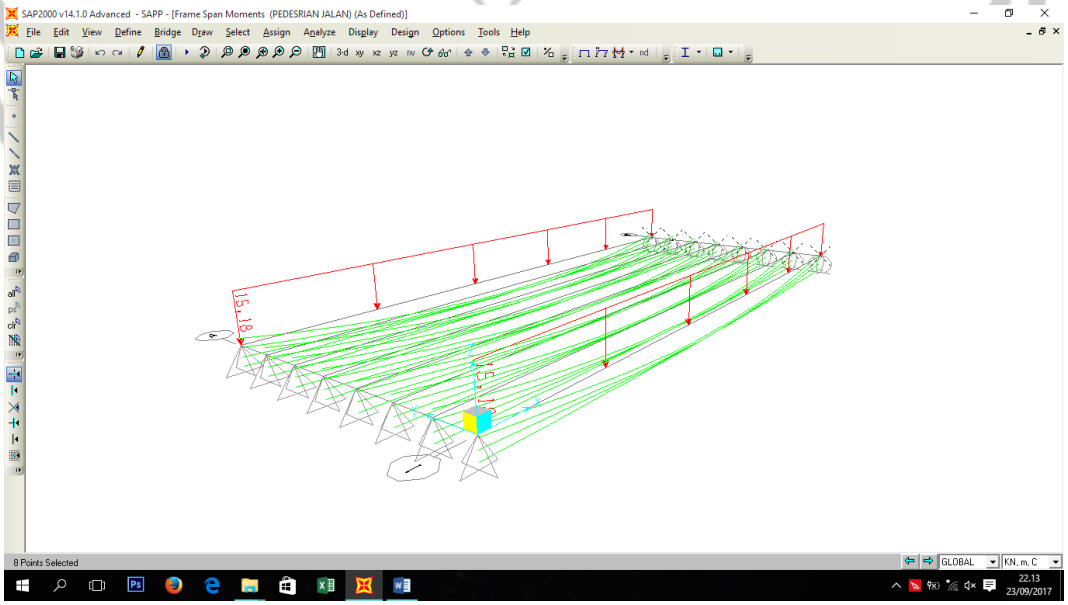
Gambar .5. Gaya Rem



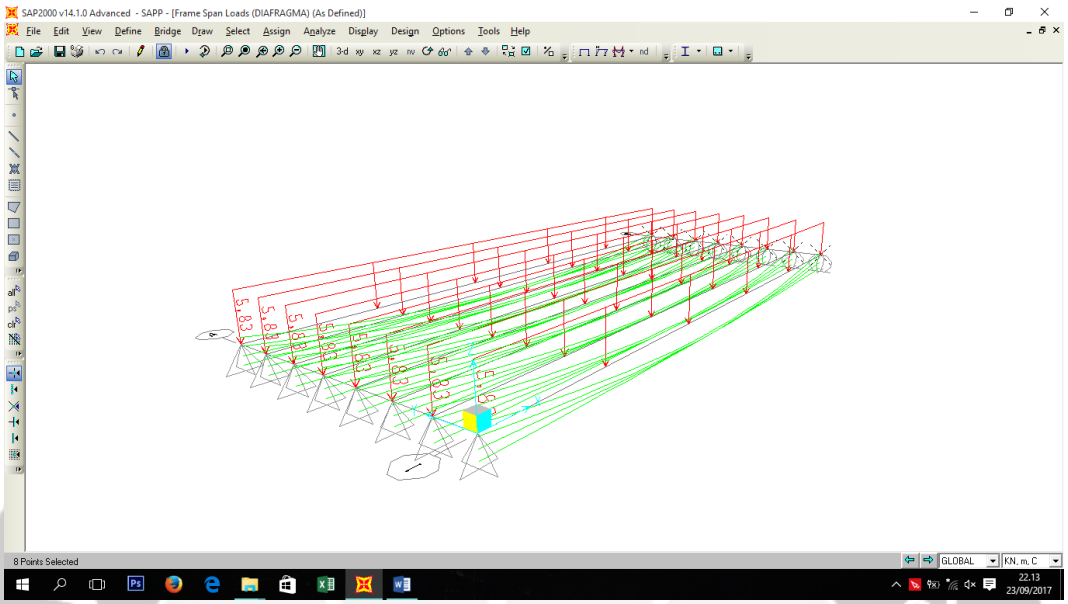
Gambar.6. Gempa



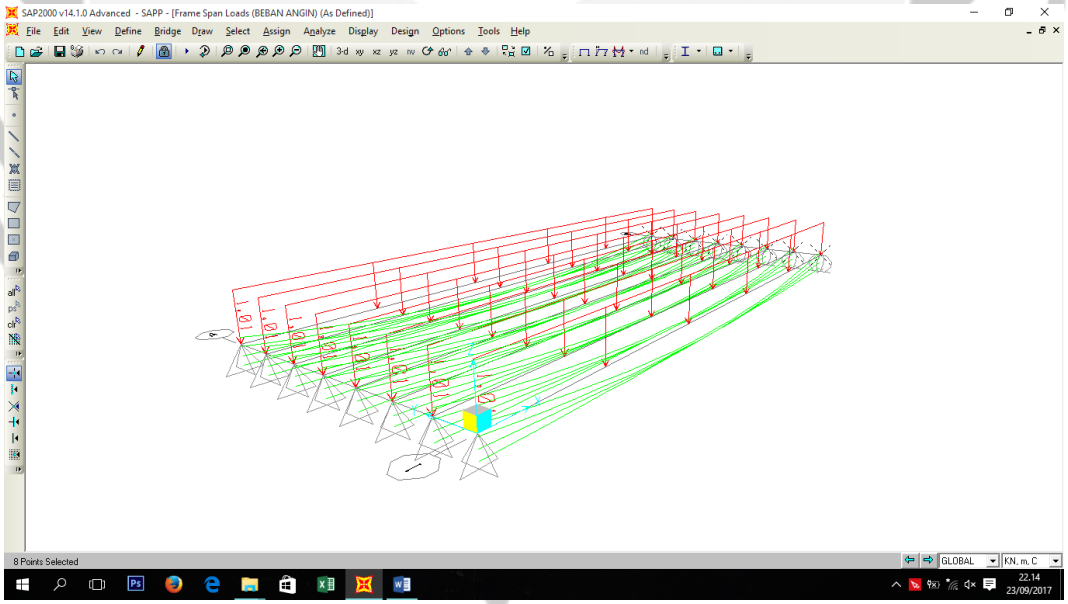
Gambar.7. Trotoar



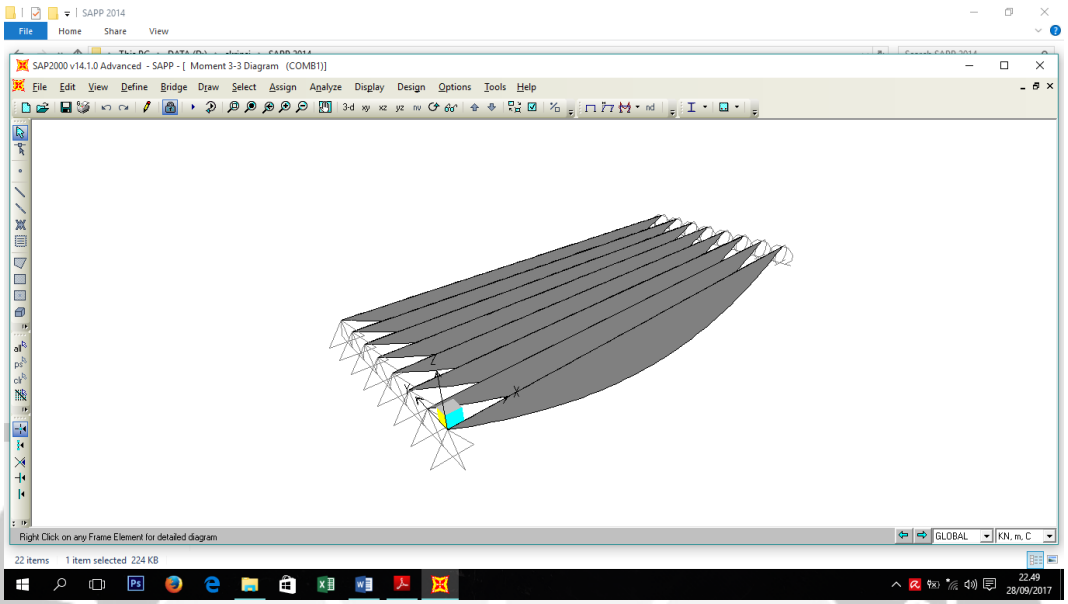
Gambar.8. Pedestrian Jalan



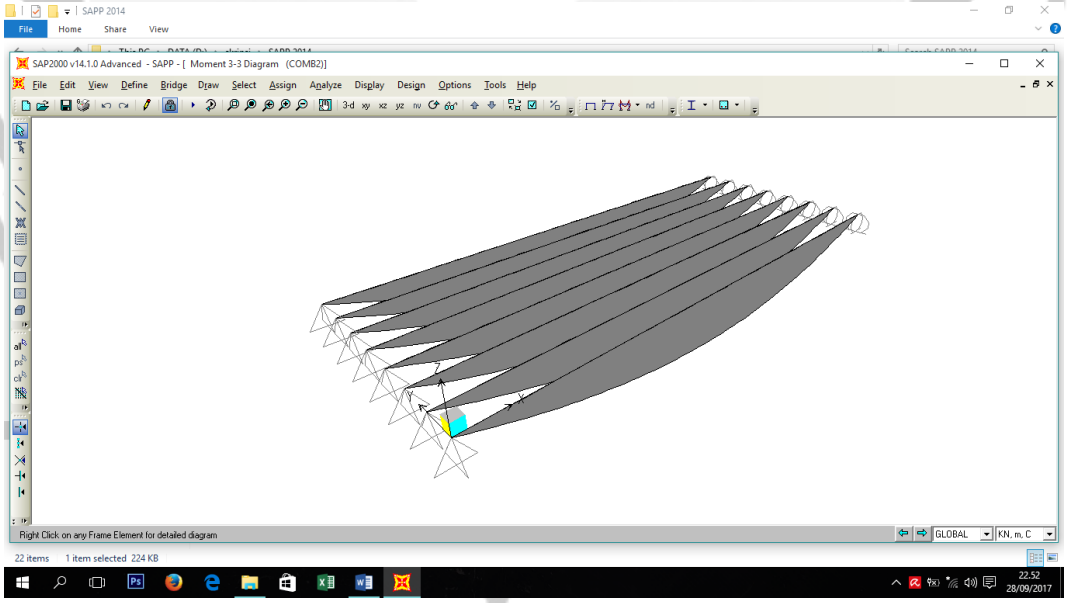
Gambar.9. Diafragma



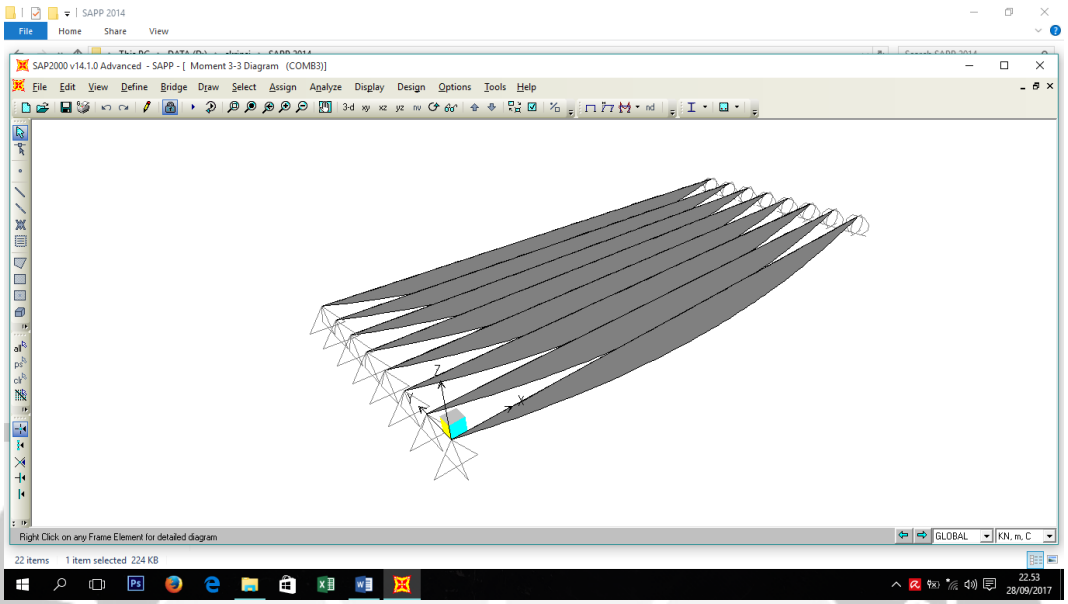
Gambar.10. Beban Angin



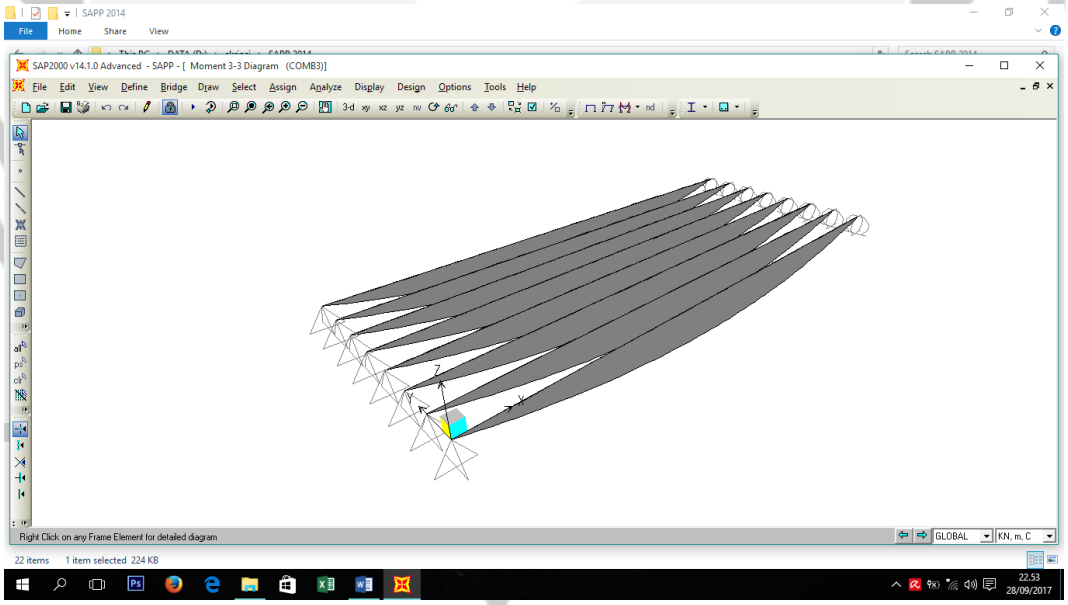
Gambar.11. Kombinasi 1 Akibat Momen 3-3



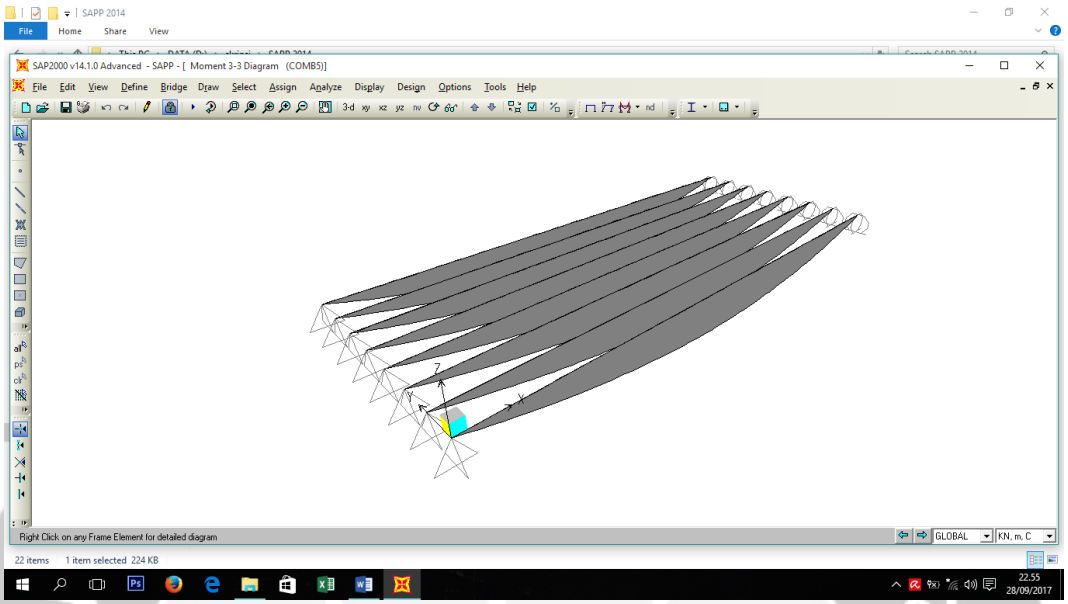
Gambar.12. Kombinasi 2 Akibat Momen 3-3



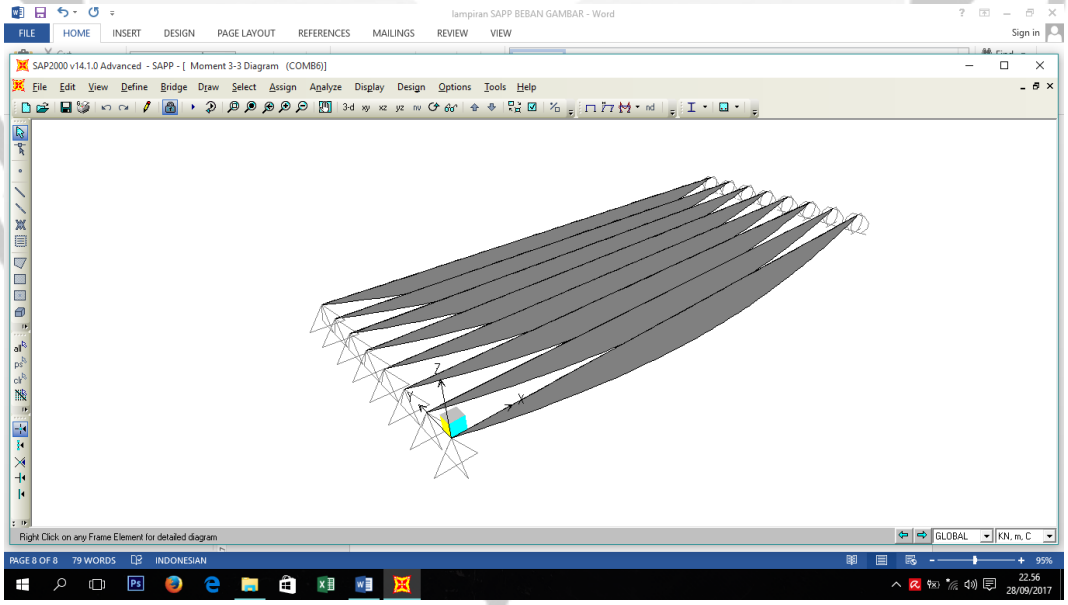
Gambar.13. Kombinasi 3 Akibat Momen 3-3



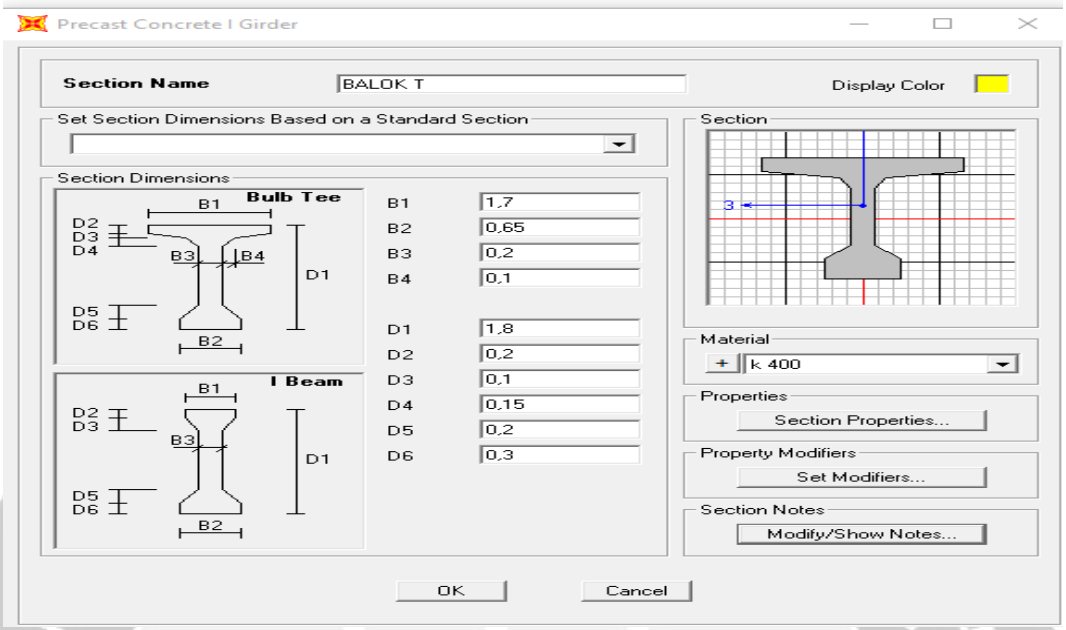
Gambar.14. Kombinasi 4 Akibat Momen 3-3



Gambar.15. Kombinasi 5 Akibat Momen 3-3



Gambar.16. Kombinasi 6 Akibat Momen 3-3



Gambar.17. Dimensi Penampang Balok T Girder